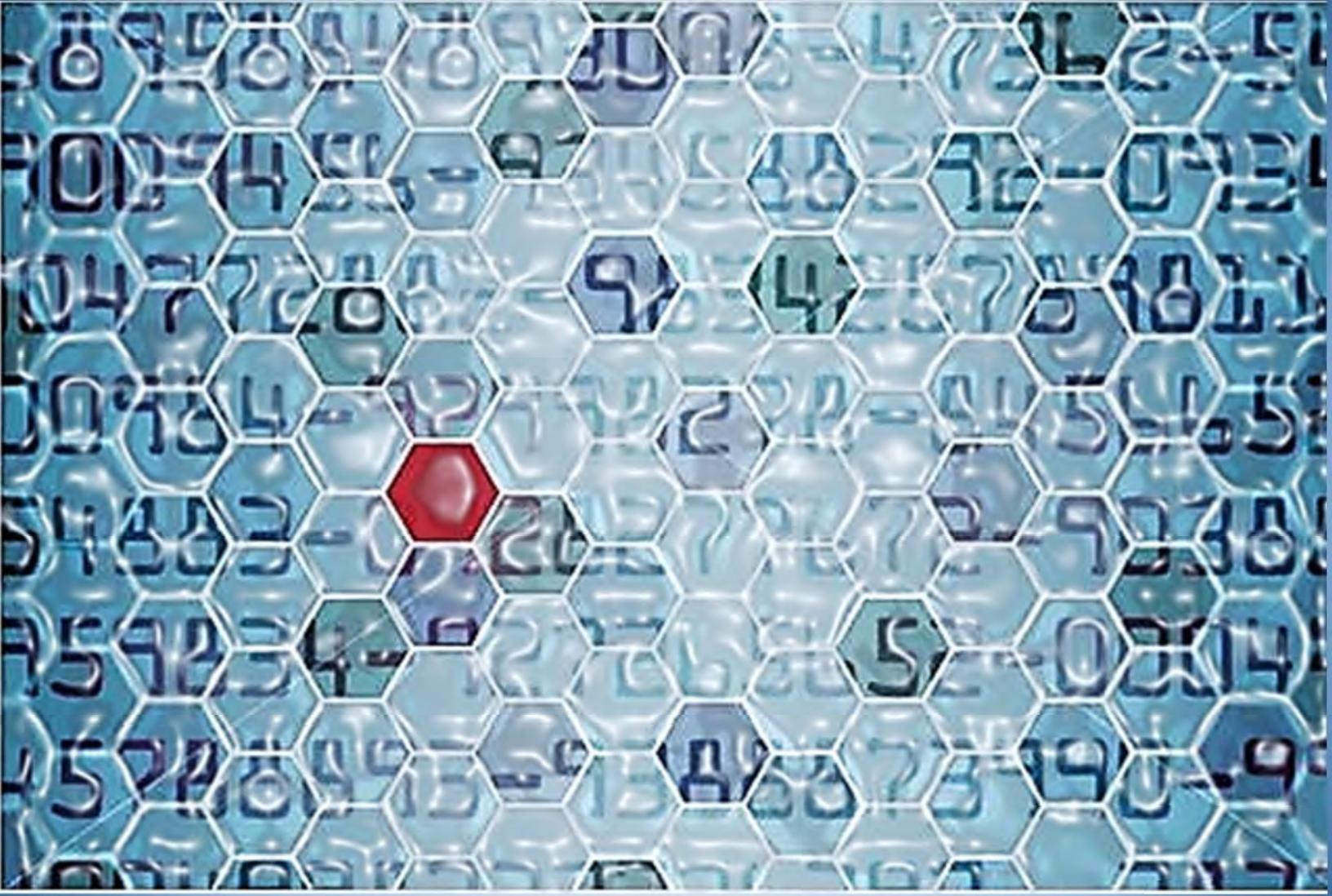
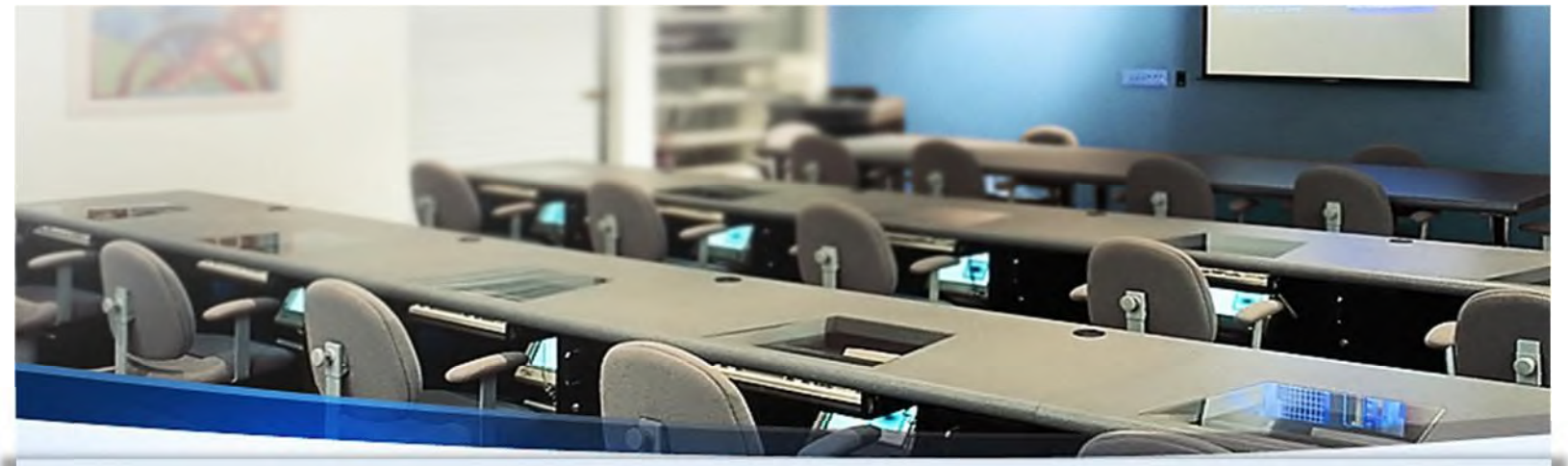


the Standard

news and commentary on technology & standards in education

PESC®



Spring 2018 Data Summit

The PESC SPRING 2018 DATA SUMMIT will be held Wednesday May 2-4, 2018 in Washington DC.

Beginning at 7:30am on May 2, 2018
with continental breakfast, registration
and a *1st Time Attendee Welcome Session*,
the SPRING 2018 DATA SUMMIT includes
PESCs Annual Membership Meeting, Spring Reception
and concludes by noon on Friday May 4, 2018.

PESC's SPRING 2018 DATA SUMMIT includes a range of featured topics all targeting: access, integration and implementation of data systems; maintenance & promotion of data exchange standards; open, community-driven development and innovation of technology; data privacy, data quality, data management, and data collection & reporting; mobility and overall interoperability; & other key factors that drive global education data systems development and technology.

FEATURED TOPICS include: Blockchain, Comprehensive Learner Records, Credential Engine, Credential Ecosystem Data Mapping, EdExchange, EMREX, GDPR, Global Education Organization (GEO) Code, Indiana eTranscript, JSON Task Force, Lumina Foundation, U.S. Chamber, U.S. National Forum for Education Statistics, Web 3.0 Technologies, Working Nation, among others related to academic credentialing.

Featured Speakers

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

INNOVATING DATA INTEGRATION W/ COMPREHENSIVE LEARNER RECORDS
- **Mike Reilly**, *Executive Director, AACRAO*

NATIONAL FORUM ON EDUCATION STATISTICS – RESOURCES & TOOLS
- **Levette Williams**, *Past Chair and Member, National Forum for Education Statistics*

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*

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

JSON TASKFORCE

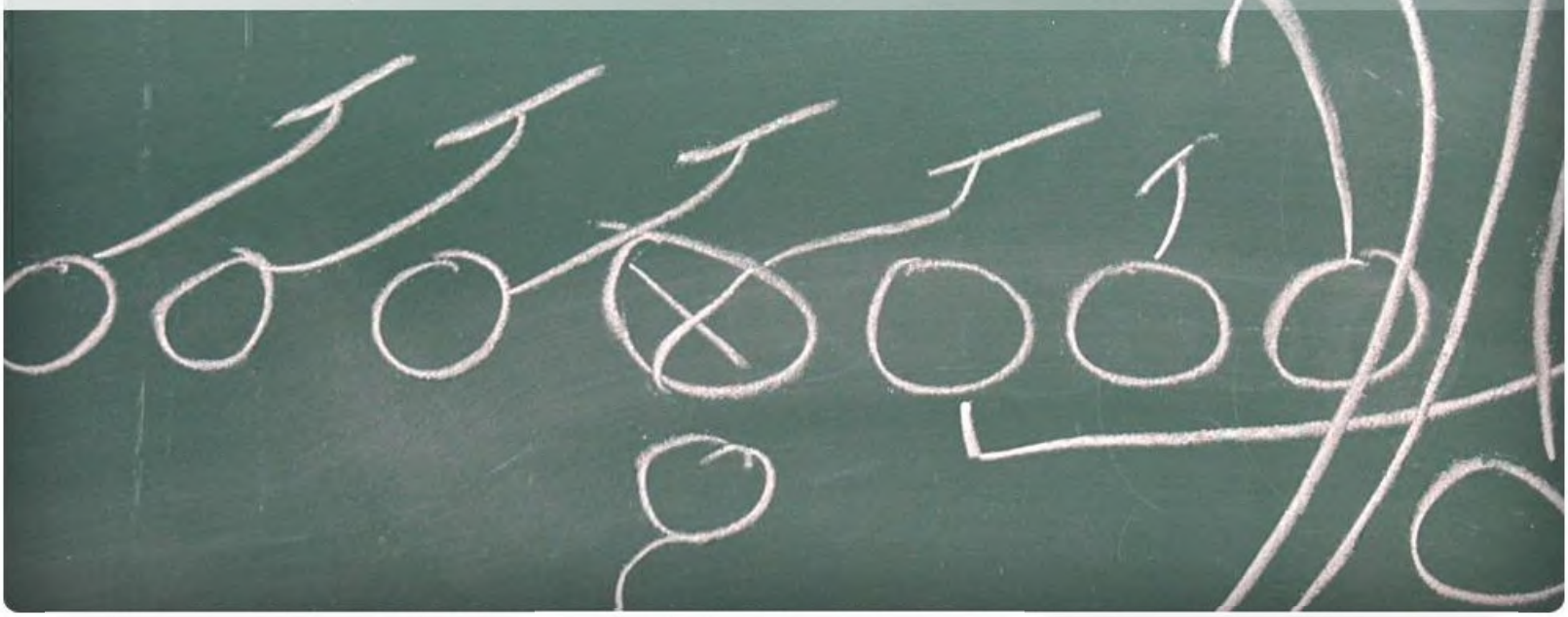
Join Today!

DEVELOPMENT IS UNDERWAY AT PESC.

The JSON Task Force invites
those with & those seeking knowledge & experience
regarding JSON & JSON–LD.

PESC®

PESC Welcomes New Members to the Team!



McGill University
Montreal, Quebec, Canada
www.mcgill.ca

McGill University is one of Canada's best-known institutions of higher learning and one of the leading universities in the world. With students coming to McGill from some 150 countries, our student body is the most internationally diverse of any research-intensive university in the country.

McGill was founded in 1821 thanks to a generous bequest by James McGill, and since then, we've grown from a small college to a bustling university with two campuses, 10 faculties, some 300 programs of study, and 40,000 students.

University of Iowa
Iowa City, Iowa, USA
www.uiowa.edu

The University of Iowa carries out its academic mission primarily through its 11 colleges, which offer undergraduate and graduate education, professional education, and education and training in the health sciences.

Iowa is known around the world for its balanced commitment to the arts, sciences, and humanities. It's home to one of the nation's largest and most highly acclaimed academic medical centers, the pioneering Iowa Writers' Workshop, and more than 200 different academic areas of study for students to explore.

University of Melbourne
Melbourne, Victoria, Australia
www.unimelb.edu.au

Established in 1853, the University of Melbourne is a public-spirited institution that makes distinctive contributions to society in research, learning and teaching and engagement. It's consistently ranked among the leading universities in the world, with international rankings of world universities placing it as number 1 in Australia and number 32 in the world (*Times Higher Education World University Rankings 2017-2018*).

Standards Make the World Go 'Round – PESC Members Make Them Free & Open
Become a Data Advocate – Join PESC Today!
WWW.PESC.ORG

Spotlight on AACRAO SPEEDE

A History & Tradition of Excellence

Pioneers of Standardization in Education

"In the fall of 1988…Gary Smith, University of Missouri and AACRAO VP for Data Management and Research, appointed an AACRAO task force…with the objective of developing a nationwide format for electronic college transcripts…"

– Betsy Bainbridge, SPEEDE Coordinator & 1st PESC Executive Director

1988 – AACRAO Annual Meeting in Nashville

Featured 4 sessions on data exchange (high school transcripts in Austin, Dallas & Texas, and high school & college transcripts in Florida)

1990 – 1st SPEEDE Workshop at Arizona State University

AACRAO, NCES & CCSSO collaborate and produce EDI Transcript v 1.0

1991 – SACRAO MOSIS Conference in Atlanta

SPEEDE – Standardization of Postsecondary Education Electronic Data Exchange and ExPRESS – Exchanging Permanent Records Electronically for Students and Schools, adopted.

1993 – SPEEDE Coordinator Hired

Betsy Bainbridge served as SPEEDE Coordinator and then as PESC's 1st Executive Director.

1997 – PESC Founded

PESC "created as an umbrella for SPEEDE and other standards within higher education."

Since PESC's founding, AACRAO has remained a premier champion and stakeholder of standardization.

- AACRAO is the only founding organization of PESC with continuous representation on the Board of Directors.
- AACRAO along with ACT, College Board & Ellucian ore the only founding organizations maintaining continuous Membership in PESC.
- PESC has hosted SPEEDE meetings at every Data Summit and SPEEDE Chairs hold key roles within PESC.

FROM THE PESC ARCHIVES

SPEEDE at Winter Summit 2006.

Bob Morley at PESC in Washington, D.C.

SPEEDE Chairs at PESC in San Diego.

SPONSORSHIP OPPORTUNITIES

TRUST, PARTNERSHIP & BRAND RECOGNITION
ACROSS EDUCATION & AROUND THE WORLD

WWW.PESC.ORG

Credentials Solutions · National Student Clearing House · Oracle · parchment (Leader in eTranscript Exchange) · ECE · DegreeData (The complete resource of US college curriculum)

SPONSOR APPLICATION

SPONSOR PESC TODAY!

TRUST, PARTNERSHIP &
BRAND RECOGNITION
ACROSS EDUCATION & AROUND THE WORLD

Community Sourced. Learner Centric. Open Standards.

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.

PESC®
MULTIPLE STAKEHOLDERS. ONE VISION.

UNLOCK THE MOBILITY OF EDUCATION DATA WITH PESC APPROVED STANDARDS

WWW.PESC.ORG

BECOME A DATA ADVOCATE.

JOIN THE EFFORT.
JOIN THE COMMUNITY.

JOIN PESC.

Message brought to you by
Postsecondary Electronic Standards Council, maker of standards.

PESC®

#CollegeandCareer
www.PESC.org

TRUST, PARTNERSHIP & BRAND RECOGNITION

ACROSS EDUCATION & AROUND THE WORLD

COMMUNITY SOURCED. LEARNER CENTRIC. OPEN STANDARDS.

powered by

SPONSORS MAKE THE NETWORK

PESC®

GREETINGS FROM PESC!

On behalf of the Board of Directors and Members, I am pleased to provide you with PESC's 2018 Sponsorship Application & Agreement.

PESC is working to become the voice for the efficient and secure, real-time exchange of student and learner data throughout the education domain. With a learner-centric approach and open, transparent collaboration as our cornerstone principle that governs development and setting of PESC Approved Standards, PESC identifies all *learning* data points, across early childhood, elementary, secondary, postsecondary, training and employment sectors and data systems for data standardization.

Interoperability improves performance, enhances service and delivery, expands digital connectivity and provides long-term cost savings. PESC Approved Standards – platform and application neutral – enable interoperability, mobility and support a sustainable, reliable pathway for future application and systems development.

Providing and supporting free and open PESC Approved Standards – the core value of PESC's mission requires support, maintenance and funding.

Please help support this global mission by sponsoring PESC today!

By sponsoring and investing in PESC, your organization signifies to the education community at large a special commitment to this mission and to the greater common good of ensuring student and learner achievement. Under PESC promotion, we market your organization's brand in our activities, events, groups, online communications and global outreach.

PESC's reach is far and wide across PK20W, admissions, registrar, financial aid, education technology, data, research, government, policy and credentialing communities. The neutral, trust environment, created by PESC, is a critical component – what we are doing together is working, and should continue.

From Ontario to Indiana, to Stanford University and all 114 of the California Community Colleges (which alone serves 2.1 million students), to all of student financial aid – all Users of PESC Approved Standards – PESC is fulfilling its vision of a connected, global, digital domain.

Please consider Sponsoring PESC today! If you have any questions, please contact our Membership Services Director Jennifer Kim at jennifer.kim@pesc.org or 202-261-6516.

Sincerely,

Michael D. Sessa
President & CEO

PESC®

UNLOCK THE MOBILITY OF EDUCATION DATA

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

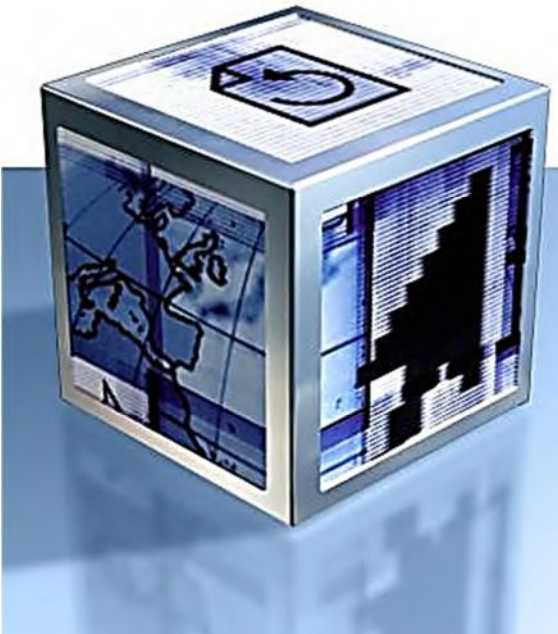
Through PESC every stakeholder along the education lifecycle is empowered. Combined with an agreement of 'co-opetition' – that is *cooperation among competitors* – PESC identifies, develops, openly shares and promotes collaborative data solutions that employ automated, reusable and sustainable technologies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

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

Standards make the world go 'round. PESC Sponsors help make standards free and open. Together, with this unique 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, common solutions like standardization are being viewed as wise, cost-saving investments and as new technologies emerge.

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 Sponsors boldly accept that mission and work diligently to continue the proven record of success and achievement.

We now elevate the mission to the next level.

JOIN THE EFFORT.

JOIN THE COMMUNITY.

SPONSOR PESC.

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 and education data standards-setting body comprised of data, software & technology service providers; schools, districts, colleges & universities; college, university & state/provincial systems; local, state/provincial & federal government offices; professional, commercial & non-profit organizations; non-profit associations & foundations.

Our Mission

PESC's Mission is to lead the establishment and adoption of open data exchange standards across the education domain.

Goals of the 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. PESC promotes student-and learner centric design and data modeling, hub and spoke models, federated identity, and similarly proven models of interoperability; and fosters open, transparent collaboration across global education and learning sectors. PESC Approved Standards improve institutional performance and data quality; simplify access and reduce cost; and enable 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.

Our Vision

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 ecosystem 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.

Social Media & Online Presence

- PESC Website
- facebook
- LinkedIn
- twitter

Newsletters, Articles & Marketing

The Standard

PESC Lists

Webinars

Events

Speaking Engagements

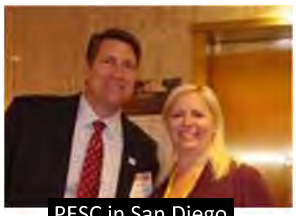
- AACRAO
- Groningen Declaration Network
- EMREX
- Open Recognition Alliance

Exhibitions & Sponsorships

- AACRAO
- AIR Annual Conference
- California Transcript Workshop & CCCApply
- U.S.STATS-DC NCES Conference

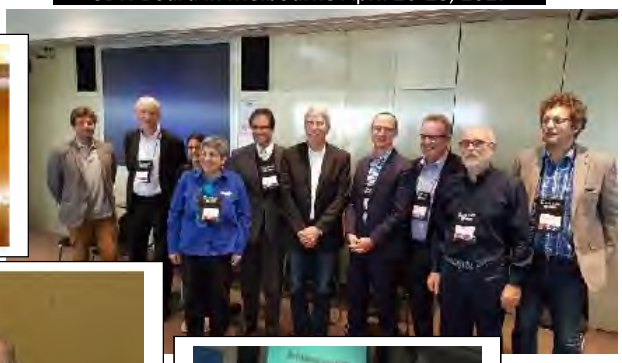
ACTIVATING INTEROPERABILITY ACROSS THE EDUCATION DOMAIN

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



PESC in San Diego October 14, 2016

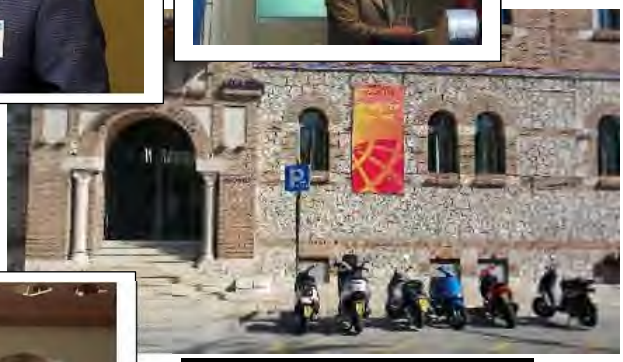
GDN Board in Melbourne April 26-28, 2017



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



PESC at GDN in Malaga May 4-6, 2015

PESC in San Diego October 14, 2016

EWP at PESC San Diego May 3-5, 2017

GDN at PESC DC April 13, 2016

PESC at EWP in Brussels Sept 26, 2017

PESC at EWP in Brussels Sept 26, 2017

PESC at EAIE in Glasgow Sept 15, 2015

PESC at GDN in Melbourne April 26-28, 2017

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

PESC at Blockchain Conference in Groningen Sept 5, 2017

Data Summits

Initiatives

- Admissions Data Development Workgroup
- Credential Ecosystem Data Mapping
- EdExchange
- GEO Code
- JSON – LD

Groups

- Academic Credentialing & Experiential Learning Task Force
- Canadian PESC User Group
- EdExchange User Group
- GEO Code User Group
- JSON Task Force
- Standards Development Forum for Education

Partners & Affiliates

- AACRAO
- Access 4 Learning
- Apereo
- ARUCC
- EMREX
- Erasmus Without Paper
- Groningen Declaration Network
- HR Open Standards
- Internet2
- SHEEO
- U.S. CEDS

Sponsor Opportunities & Levels

Diamond
$15,000

Support ALL
SPRING & FALL
DATA SUMMITS &
All GROUPS & INITIATIVES
as an
ANNUAL DIAMOND SPONSOR!

- Spring Data Summit
- Fall Data Summit
- Academic Credentialing & Experiential Learning
- Canadian PESC User Group
- EdExchange
- GEO Code
- JSON Task Force

Gold
$10,000

Support the
SPRING & FALL
DATA SUMMITS
as an
ANNUAL GOLD SPONSOR!

- Spring Data Summit
- Fall Data Summit

Silver
$5,000

Support Your Favorite
GROUP OR INITIATIVE
as an
ANNUAL SILVER SPONSOR!

- Academic Credentialing & Experiential Learning
- Canadian PESC User Group
- EdExchange
- GEO Code
- JSON Task Force

As a Sponsor of PESC

- **Your organization is marketed by PESC throughout the entire year:**
  - Social Media & Online Presence
  - Newsletters, Articles & Marketing
  - Speaking Engagements, Exhibitions & Sponsorships
  - Groups, Partners & Affiliates
  - Spring and Fall Data Summits
  - Initiatives
- **Your organization firmly associates itself with the PESC mission of open, transparent and collaborative interoperability and establishes itself as a leader and stakeholder**
- **Investing in PESC increases the value & maximizes the integrity of your data technology**

Sponsor PESC Today!

TO SPONSOR PLEASE COMPLETE THIS FORM AND SEND IT ALONG WITH A CHECK PAYABLE TO: PESC, 1250 CONNECTICUT AVE NW SUITE 200, WASHINGTON DC, 20036. TAX ID#: 52-2179499. ORGANIZATIONS CAN SPONSOR ADDITIONAL CERTAIN ACTIVITIES AND EVENTS INDIVIDUALLY. FOR MORE INFORMATION OR IF YOU WOULD LIKE TO PAY BY CREDIT CARD, CONTACT JENNIFER KIM AT PESC.

Sponsor Level ○ Diamond ○ Gold ○ Silver

Favorite Group *(Silver Only)*

Organization Name

Organization Website

Contact Person Name

Contact Person Title

Address

City, State/Province

Zip/Country

Phone

Email

Signature

Date

IN SPONSORING PESC, MY COMPANY AND ITS EMPLOYEES, CONTRACTORS AND AFFILIATED PARTIES AGREE TO ABIDE BY PESC'S GUIDELINES, TERMS AND CONDITIONS OF USE AND INTELLECTUAL PROPERTY (IP) POLICY AND USER AGREEMENT.

TRUSTED OPEN DATA STANDARDS

UNLOCK THE MOBILITY OF EDUCATION DATA

WWW.PESC.ORG

Connecting College & Career

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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.

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Join the Community.

Join the Effort.

Join PESC.

PESC®

Multiple Stakeholders. One Vision.

Unlock the Mobility of Education Data with PESC Approved Standards

www.PESC.org

ELECTIONS

BOARD OF DIRECTORS

PROXY BALLOT AND NOMINEE BACKGROUND

March 26, 2018

PESC

PROXY BALLOTS MUST BE RECEIVED IN PESC'S OFFICES BY 5:00PM PST APRIL 13, 2018

202-261-6517 FAX
MICHAEL.SESSA@PESC.ORG
1250 CONNECTICUT AVE NW STE 200
WASHINGTON, DC 20036

PROXY BALLOT

BOARD OF DIRECTORS

ELECTIONS FOR PESC'S BOARD OF DIRECTORS WILL BE HELD IN-PERSON

during the 20th Annual PESC Spring Membership Meeting Thursday May 3, 2018 from 5.30pm - 6pm EST at the Dupont Circle Hotel in Washington, D.C. PESC Membership meetings are open to all PESC Members & with prior notification, other interested parties.

THIS OFFICIAL PROXY BALLOT ALLOWS MEMBERS, WHO MAY NOT BE ABLE TO VOTE AT THE ELECTIONS IN-PERSON, THE ABILITY TO CAST A VOTE NOW.

ALL MEMBERS are encouraged to submit a PROXY BALLOT and may allow it to remain as the official ballot OR replace it by voting 'in-person' at the elections. This ensures a ballot has been cast and will be counted for each Member in case last minute emergencies (weather, flight delays, etc.) prevent voting at the elections 'in-person'.

Those nominees appearing on this ballot will have five minutes each to address the Members immediately prior to 'in-person' elections. Nominees, who may want to introduce themselves to PESC Members sooner as they may not be as familiar with the PESC Membership or who wish to communicate with Members over the coming weeks, may submit no more than two (2) communications (emails, letters, etc.) to the PESC office. In turn the PESC office will issue that nominee's communication(s) to the PESC Members over the PESC Member listserve. Nominees are able to communicate directly and independently with PESC voting members outside of this process.

NOTE THAT PESC DOES NOT ACCEPT 'WRITE-IN' CANDIDATES.

Due to specific bylaws requiring diversity, a slate of nominees is presented from which Members vote.
At this time there are eight (8) nominees for six (6) Board of Director seats.

PLEASE VOTE FOR SIX (6) PERSONS:

☐	**Rajeev Arora**	**Parchment**
☐	**Mark Cohen**	**California Community Colleges**
☐	**Liz Dietz**	**Workday**
☐	**Doug Falk**	**National Student Clearinghouse**
☐	**Rick Skeel**	**Ellucian**
☐	**Francisco Valines**	**Florida International University**
☐	**Vivian Wong**	**Oracle**

Member Organization:		
Name of Person Voting: (*please print*)		
Signature:		Date:

NOMINEE BIOGRAPHIES

ELECTIONS | BOARD OF DIRECTORS

RAJEEV ARORA

INCUMBENT

SENIOR VICE PRESIDENT, PRODUCT & SUPPORT, PARCHMENT

Rajeev 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 Postsecondary Electronic Standards Council (PESC), Remote-Learner. 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.

MARK COHEN

PRODUCT MANAGER, CALIFORNIA COMMUNITY COLLEGES TECHNOLOGY CENTER

Throughout my career in education technology I have been a proponent of interoperability and the exchange of standards-based electronic data; and would be honored to serve on PESC's Board of Directors representing the California Community Colleges Technology Center.

Funded by a grant from the California Community Colleges Chancellor's Office, the CCC Tech Center coordinates the work of systemwide technology projects across California's 114 community colleges, the largest system of higher education in the world. A longtime PESC member, the CCC Tech Center has contributed to and helped lead a number of PESC initiatives.

As a Product Manager at the CCC Tech Center, I am the product owner eTranscript California and other transcript related initiatives. eTranscript California (formerly known as CCCTran) is a statewide electronic transcript exchange supporting the request and delivery of electronic transcripts across all of California's postsecondary systems, and is a past winner of PESC's Best Practices award.

Prior to joining the Tech Center, I served as SVP Market Strategy and Chief Security and Privacy Officer at Parchment, a company that I Co-Founded as Docufide in 2003. At Parchment I led product development for the company's first 10 years, later leading new initiatives and supporting Parchment's growth beyond transcript exchange.

During my 13 years as a PESC member, I have Co-Chaired the Education Records User Group (ERUG) and CDS Taskforce, participated in the workgroup that developed the HS XML transcript schema, and currently serve as Co-Chair of the EdExchange workgroup and Advisory Board. I had previously had the honor of serving on PESC's Board of Directors representing Parchment from 2014-2015.

NOMINEE BIOGRAPHIES

ELECTIONS | BOARD OF DIRECTORS

LIZ DIETZ

VICE PRESIDENT, STUDENT STRATEGY & PRODUCT MANAGEMENT, WORKDAY

Liz Dietz is vice president of student strategy and product management at Workday, responsible for strategy, design, and product management of Workday Student.

Liz has more than 30 years of experience in designing, building, marketing, and supporting innovative software solutions in the education market. Prior to joining Workday in 2013, Liz served as vice president for higher education at CedarCrestone, establishing its Higher Education Workday Practice. Prior to CedarCrestone Liz served as president and CEO for Xap Corp., where she stewarded the development of Xap's secondary and postsecondary transcript exchange network and led the acquisition of Bridges Transitions. Prior to Xap, Liz was vice president/general manager of the Campus Solutions Product Division at PeopleSoft. She joined PeopleSoft via the acquisition of Campus Solutions, the software and consulting company she co-founded that developed PeopleSoft's student administration software products.

Liz also spent more than 10 years at the University of California, Los Angeles and Loyola Marymount University where she was responsible for designing, developing, and implementing student information systems, and served two years as associate director of Financial Aid.

DOUG FALK

INCUMBENT

CIO AND VICE PRESIDENT, NATIONAL STUDENT CLEARINGHOUSE

Doug Falk has served in technology leadership positions for 17 years at the National Student Clearinghouse, where he is currently Vice President and Chief Information Officer. As CIO, Doug provides vision and leadership for information technology initiatives that align with business goals to improve client responsiveness, quality, security and compliance, and cost effectiveness. He is responsible for providing leadership across multiple areas, including development, implementation and governance of information systems, enterprise architecture, information security, and technology infrastructure.

Prior to being named CIO, Doug was the Clearinghouse's long-time Vice President of Information Technology and CTO. He was instrumental in developing the Clearinghouse's Web-based application services and its data management capabilities. Doug has been a member of the PESC Board since July 2002, and is currently serving as Board Chair.

RICK SKEEL

INCUMBENT

DIRECTOR OF PRODUCT MANAGEMENT, ELLUCIAN

Rick has been a long time member of PESC as a member of the AACRAO SPEEDE Committee, as a member of Kuali, and was on the Committee that formed the foundation for what became PESC. He has worked with national and community standards groups for more than 20 years through his work on SPEEDE. He was a member of the PESC Board since July 2005, for more than 9 years and had to step down from his position on the Board for one year because of a change in employment.

Rick worked at the University of Oklahoma for more than 38 years and retired from that institution at the end of October, 2012. He worked for the Kuali Foundation for two years and is now working for Ellucian. Rick is very interested in returning to the PESC Board to continue the work he has been involved in for so many years, and believes his past experience as well as his new position give him a breadth of experience that is very valuable to the organization.

NOMINEE BIOGRAPHIES

ELECTIONS | BOARD OF DIRECTORS

FRANCISCO VALINES

INCUMBENT

DIRECTOR OF FINANCIAL AID, FLORIDA INTERNATIONAL UNIVERSITY

Francisco has been involved in Student Financial Aid Administration for over 30 years at various large public Universities including the University of Florida, Texas Tech University, Washington State University, the University of Tennessee, Knoxville, The University of Maryland, College Park, and Florida International University. He is in his tenth year as the Director of Financial Aid at Florida International University, a public research University with 54,000 students, a Law School and a Medical School. FIU is designated as a Hispanic Serving Institution and qualifies for the Title III and Title V exemptions for Title IV Aid matching requirements based on the size and ratio of its Pell Grant recipients.

Prior to coming to FIU, Francisco was the Associate Director of Financial Aid at the University of Maryland, College Park for 15 years. Francisco is currently serving on the PESC Board, and is the Federal Legislative Relations Chair for the Florida Association of Student Financial Aid Administrators (FASFAA). He was also the 2013-2014 Chair of the NASFAA Technology Initiatives Committee. He has served on many NASFAA committees including the Reauthorization Task Force, Technology, Need Analysis, and College Access. He has presented at State, Regional, and National Conferences in such diverse areas as Technology in the Aid Office, Using Diversity in packaging financial aid, Gramm-Leach-Bliley as it applies to financial aid, Hot topics for Grad and Professional Financial Aid, Disaster Preparedness, BBAY Loans, and many others. Francisco has served on the PESC Board since July 2006.

VIVIAN WONG

GROUP VICE PRESIDENT, HIGHER EDUCATION, ORACLE

Vivian is a dynamic, outcome driven, and accomplished executive who brings a wealth of experience and talent in developing world-class software in leading global engineering teams. She is an excellent collaborator and communicator with strong leadership skills, with over 20 years experience building on-premise, SaaS, and mobile products for PeopleSoft, Oracle, Taleo, ServiceMax, and TargetX.

As Group Vice President of Oracle Higher Education, Vivian currently leads the product development team at Oracle for higher education. Under her direction this team is building a next generation student information system - Student Cloud - which through its groundbreaking approach to empowering institutions and students globally will disrupt the industry.

Vivian is strategic, results-oriented and highly focused on customers' success. An expert at building, transforming and leading high-caliber teams, Vivian is talented at fostering an empowering, fun and collaborative environment to unleash the full potential of an organization. Vivian is a strong customer advocate; she ensures quality, usability, performance and scalability are always designed and built into the solutions she delivers.

Vivian is passionate about making the world a better place. For team bonding, she leads her teams to practice philanthropy. Among other personal and professional endeavors, she currently serves on the Board of Directors for IMS Global, an education industry standards body.

FOR IMMEDIATE RELEASE
AUGUST 14, 2017
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HR OPEN STANDARDS AND PESC SIGN HISTORIC AGREEMENT TO ADVANCE INTEROPERABILITY ACROSS EDUCATION AND HR SECTORS

PARTNERSHIP TO FOCUS ON CROSS-COMMUNITY AWARENESS AND ALIGNMENT OF COMPETENCIES AND CREDENTIALS

HR OPEN STANDARDS and PESC *are* pleased to announce an historic partnership between the two organizations and their communities of interest.

"PESC and HR Open Standards have been collaborating for years now," stated Michael D. Sessa, PESC President & CEO. "This formal agreement advances our ability to learn from each other, solve common problems together, and creates a solid communication channel between the communities and resources supporting both PESC and HR Open Standards."

"The alliance between HR Open Standards and PESC allows us to coordinate standards development efforts, advance interoperability, exchange knowledge, and educate the community regarding standards, all of which benefit our members and the industry", noted Kim Bartkus, Executive Director of HR Open Standards Consortium.

Members of both organizations will benefit from the agreement through joint webinars, networking, and shared knowledge. Currently, both groups are working with Connecting Credentials to map the competency data and will continue with additional collaboration.

ABOUT HR OPEN STANDARDS CONSORTIUM

Founded in 1999 as the HR-XML Consortium, HR Open Standards is dedicated to the development and promotion of common specifications that simplify human resources-related data exchanges.

By championing collaboration and innovation, HR Open Standards leads standards development projects to save HR professionals time and money by providing employers, government, software and service providers with free, flexible, and comprehensive global HR interoperability standards. Visit the HR Open Standards website for more information and to download their free suite of HR-XML and HR-JSON data exchange standards.

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.

HR OPEN STANDARDS AND PESC SIGN HISTORIC AGREEMENT TO ADVANCE NTEROPERABILITY ACROSS EDUCATION AND HR SECTORS

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.

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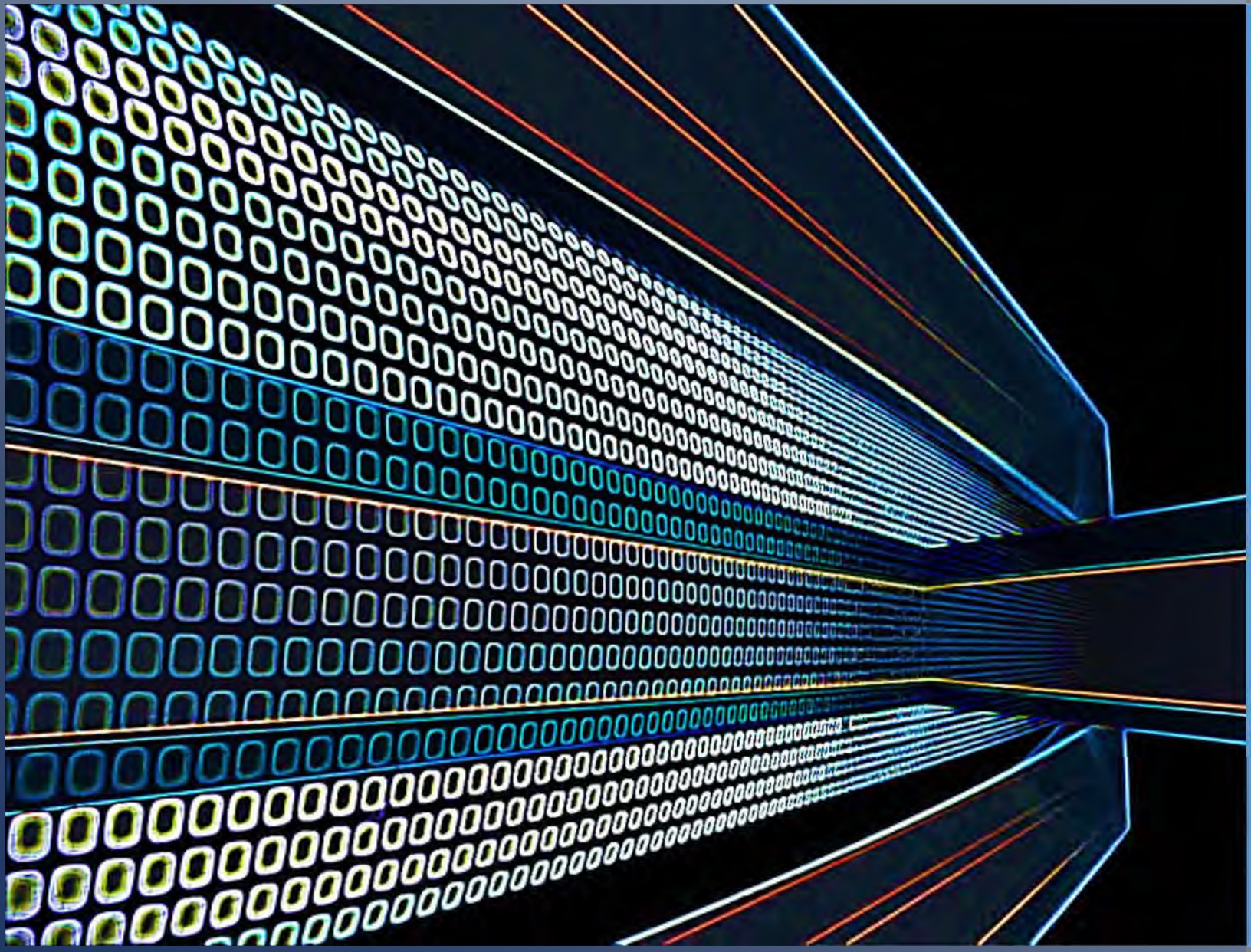

Leading the

ESTABLISHMENT & ADOPTION
OF OPEN DATA STANDARDS
ACROSS THE EDUCATION DOMAIN

WWW.PESC.ORG

PRESS

PESC

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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 MEMBRESHIP DUES
2) REGISTRATION FEES FROM SPRING & FALL DATA SUMMITS
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SPRING & FALL DATA SUMMITS

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MICHAEL SESSA, PRESIDENT & CEO
JENNIFER KIM, MEMBERSHIP SERVICES DIRECTOR

PESC IS SPONSORED ANNUALLY by Credentials Solutions, National Student Clearinghouse, Oracle and Parchment Inc. PESC partners include AACRAO, APEREO, ARUCC, HR Open Standards, 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 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.

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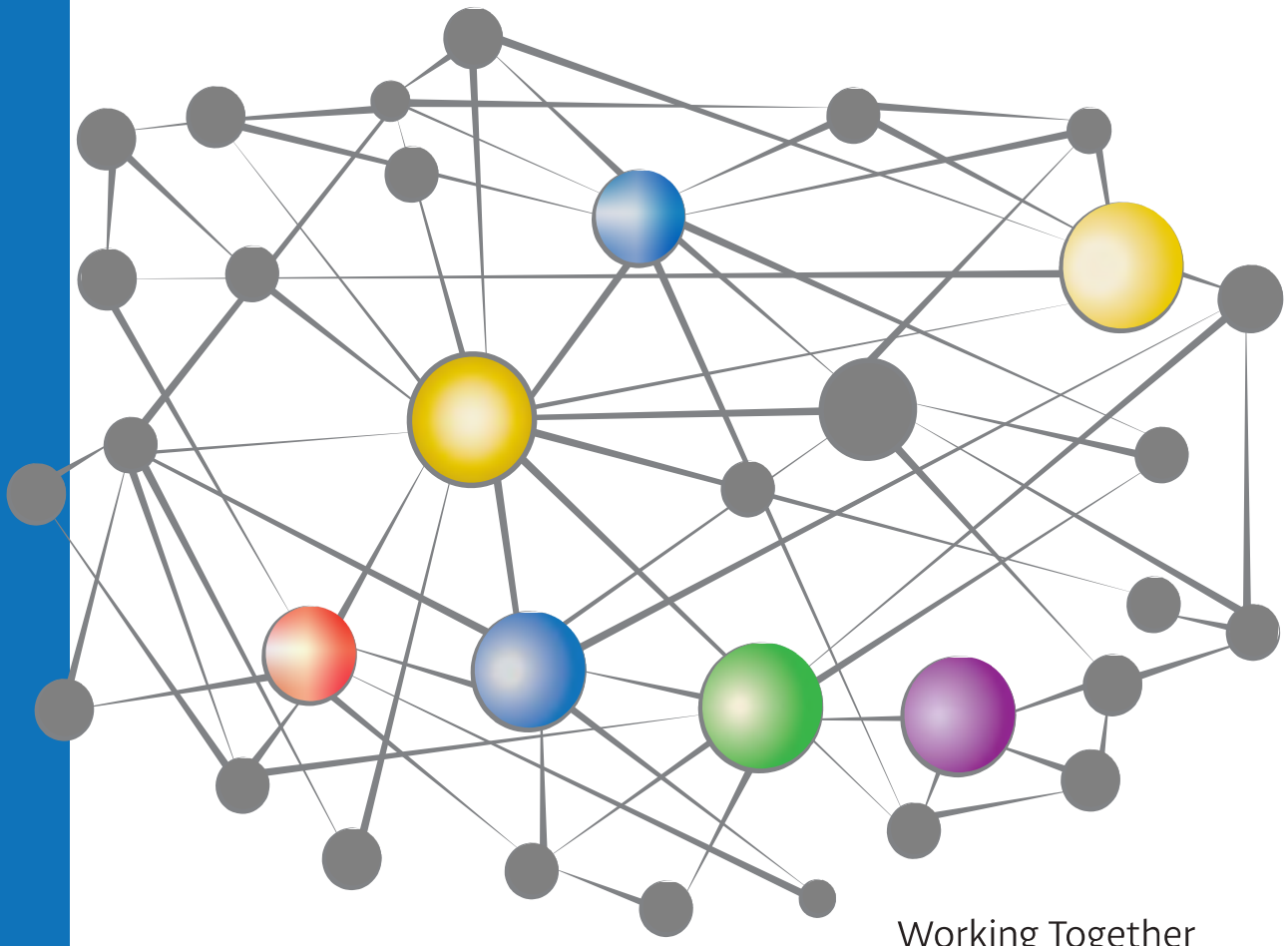
INTEROPERABILITY
Standards for Education



Working Together
to Strategically Connect
the K–12 Enterprise

CoSN
LEADING EDUCATION INNOVATION

WHY INTEROPERABILITY STANDARDS MATTER IN K–12 EDUCATION

K–12 education institutions increasingly are looking to digital content and related e-learning technologies to meet evolving education needs and goals. Technology-based products, services and resources are making positive impacts on education and are improving efficiency and outcomes in teaching, learning, and classroom and school management. And yet, as educators grow more sophisticated in their use of technology, there are gaps in the integration and interfaces among disparate applications.

Historically, the case for interoperability—the seamless sharing of data, content and services among systems or applications—has not been compelling in the K–12 education market. As long as programs were restricted to individual computers or small local area networks, the costs to developers of agreeing on and implementing comprehensive, industry-wide standards were rarely justified by the benefits. Many vendors chose, instead, to focus on proprietary designs that, while solving the needs of their customers, did not allow for easy integration with systems from other vendors. Likewise, education decision makers traditionally have been more concerned with locating products that meet their immediate teaching and administrative needs than worrying about data integration as a technical requirement.

Today, however, with the advancement of the Internet and increasing reliance on digital delivery, the usability of isolated K–12 data, content and learning applications is rapidly diminishing. The growing popularity of cloud computing is amplifying the need for interoperability standards that empower school districts to combine multiple services into their IT managed portfolios, which is increasingly a combination of cloud and on-premise solutions.

Interoperability also is a logical response to the growing demand for data warehousing, sophisticated analytics, accountability reporting and performance management tools. Districts are seeking to leverage their content and data assets strategically across a number of systems and assemble best-of-breed solutions that integrate content and applications from a variety of sources and vendors. For cost efficiencies, as well as teaching and learning effectiveness, interoperability standards are a necessary component of these emerging systems.

For cost efficiencies, as well as teaching and learning effectiveness, interoperability standards are a necessary component of emerging systems.

It is clear that vendor-customized solutions for integration are not a good solution for K–12. A more comprehensive set of industry interoperability standards is needed. The ultimate goal is to create a "plug-and-play" interoperability environment in which applications from multiple vendors can exchange information automatically and without

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customization. Notably, although they simplify integration, application programming interfaces (APIs)—a set of tools, programs, routines and protocols for integrating applications—usually are not plug-and-play. Instead, APIs often are specific to their application, making it harder for other vendors to adapt their products without writing a customized interface.

Over the past decade, K–12 stakeholders have been collaborating to define the underlying and architectural standards necessary for plug-and-play interoperability. These initiatives are producing useful and promising results. Although the process is far from complete, the foundation for interoperability exists today.

There are many different, overlapping categories of interoperability, each with its own challenges and evolving standards. File sharing, for example—involving common file formats such as CSV, HTML, XML, PDF and Open Document Format—is a simple form of interoperability that has matured to such a degree that many of us take for granted the ability to use our choice of tools to read, and even edit, files created in a totally separate application. Digital accessibility, on the other hand, is more complex, with laws, guidelines and standards that could be the topic of an entirely separate publication.

Eight Key Areas of Interoperability Standards

This primer focuses on eight key areas of interoperability standards:

1. Digital content
2. Data connectivity
3. Data integration
4. Authentication, authorization and identity management
5. Portals and portlets
6. File sharing
7. Network infrastructure
8. Digital accessibility

This primer also covers interoperability governance at the district level, and looks ahead with salient questions about using interoperability standards.

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