

FALL 2016 SYMPOSIUM & DATA SUMMIT

CONGREGATE
COLLABORATE
INNOVATE

EDiINTEROP 2016

OCTOBER 12-14, 2016

SAN DIEGO WESTIN

WWW.PESC.ORG



 ENABLING THE PORTABILITY OF EDUCATION DATA

PROGRAM



FALL DATA SYMPOSIUM & SUMMIT

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WELCOME

 ENABLING THE PORTABILITY OF EDUCATION DATA

ANNUAL FALL DATA SUMMITS

FOCUS ON ACCESS, INTEGRATION AND IMPLEMENTATION OF DATA SYSTEMS; MAINTENANCE AND PORTABILITY OF DATA EXCHANGE STANDARDS; OPEN, COMMUNITY-DRIVEN INNOVATION AND DEVELOPMENT OF TECHNOLOGY; MOBILITY AND OVERALL INTEROPERABILITY; & OTHER KEY FACTORS THAT DRIVE GLOBAL EDUCATION DATA SYSTEMS DEVELOPMENT AND TECHNOLOGY.

PESC AND ITS MEMBERSHIP

LEAD TRANSPARENT, COLLABORATIVE DEVELOPMENT ACROSS P20W EDUCATION. SUPPORTING THIS MISSION ARE PESC PARTNERS THE AACRAO SPEEDE COMMITTEE, ARUCC, THE GRONINGEN DECLARATION NETWORK, INCOMMON/INTERNET2, SHEEO, AND THE US DEPARTMENT OF EDUCATION'S COMMON EDUCATION DATA STANDARDS (CEDS) INITIATIVE. PESC IS SPONSORED ANNUALLY BY CREDENTIALS SOLUTIONS, NATIONAL STUDENT CLEARINGHOUSE, ORACLE, PARCHMENT AND USA FUNDS.

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PROGRAM AT A GLANCE

PROGRAM	WEDNESDAY OCTOBER 12, 2016	THURSDAY OCTOBER 13, 2016	FRIDAY OCTOBER 14, 2016
7:30am – 5:00pm	REGISTRATION		
7:30am – 9:00am	CONTINENTAL BREAKFAST		
SCHEDULE	GENERAL SYMPOSIUM SESSIONS	GENERAL SUMMIT SESSIONS	CONCURRENT SUMMIT SESSIONS
	LA JOLLA ROOM	LA JOLLA ROOM	LA JOLLA ROOM
8:30am – 9:30am	WELCOME INTRODUCING ERASMUS WITHOUT PAPER: EUROPEAN DATA EXCHANGE	<i>JOINT CONVENING:</i> COMMON DATA SERVICES (CDS) TASK FORCE/EDEXCHANGE AND ERASMUS WITHOUT PAPER (EWP)	1) AACRAO SPEEDE COMMITTEE
9:30am – 10:00am	DEVELOPING AN INTERNATIONAL SCHOOL CODE LIST: LEADING WITH STRATEGIC COUNTRIES		DEL MAR ROOM 2) STEERING COMMITTEE, CHANGE CONTROL BOARD, TECHNICAL ADVISORY BOARD
10:00am – 10:30am	BREAK		
10:30am – Noon	EMERGENCE OF BLOCKCHAIN: ITS APPLICATION AND RELATION TO ACADEMIC CREDENTIALING	<i>JOINT CONVENING (CONT'D):</i> COMMON DATA SERVICES (CDS) TASK FORCE/EDEXCHANGE AND ERASMUS WITHOUT PAPER (EWP)	LA JOLLA ROOM 1) BOARD OF DIRECTORS
			DEL MAR ROOM 2) SEAL OF APPROVAL BOARD
Noon – 1:30pm	DEL MAR ROOM	LUNCH	DEL MAR ROOM
1:30pm – 3:00pm	GLOBAL DATA STRATEGY PERSPECTIVES CALIFORNIA AND CANADA	GLOBAL DATA MOBILITY USER GROUP AND INTERNATIONAL SCHOOL CODE LIST	ADJOURN
3:00pm – 3:30pm	BREAK		
3:30pm – 5:00pm	GLOBAL DATA STRATEGY PERSPECTIVES STATE & PK12 AND EVOLVING E-PORTFOLIO	ACADEMIC CREDENTIALING & EXPERIENTIAL LEARNING TASK FORCE AND COMMON CREDENTIAL	
5:00pm – 6:00pm	ANNUAL PESCS MEMBER MEETING		
6:00pm – 7:00pm	CORONADO TERRACE ANNUAL FALL RECEPTION		

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SESSION DESCRIPTIONS

INTRODUCING ERASMUS WITHOUT PAPER (EWP)

Moderator: J. James Wager, Education Strategist & Consultant, Credentials Solutions

Speaker: Valere Meus, International Relations Office, Ghent University

8:30am – 9:30am

VALÈRE MEUS, International Relations Office of Ghent University in Belgium, is a distinguished and expert speaker on Erasmus Without Paper (EWP). He has addressed numerous audiences at EUNIS – European University Information Systems organisation, the Groningen Declaration Network, and the EAIE – European Association for International Education, among many others, and will serve as a featured speaker at EDiINTEROP 2016, PESC's Fall Data Symposium and Summit.

In November 2015, ICEF Monitor reported that *"five million students are studying outside their home countries, more than double the 2.1 million who did so in 2000 and more than triple the number in 1990."* Industry Tap reports that *"human knowledge is doubling every 12 months, soon to be every 12 hours...compared to in 1900 [where it] doubled approximately every 100 years...and in 1945, the rate was every 25 years."*

The Erasmus Without Paper (EWP) project aims to create a network supporting the electronic exchange of exchange student data and documents by interlinking higher education systems. This innovative solution has an unprecedented potential to link all higher education institutions, resulting in the reduction of cost, efficiency of labour and better access to student data across Europe. This will ultimately lead to the permanent migration from the paper world to the electronic world of student data.

The consortium of 11 partner institutions composed of public institutions, higher education organisations, and companies from 8 European countries with a dissemination potential to over 400 HEIs from 36 European countries along with 11 associate partners, have taken up a bottom-up initiative to influence higher education institutions to exchange student information for mobility programmes fully in an electronic way by providing an evidence-based feasibility study with different use case scenarios and the practical solution to connect all existing systems in one network.

It is clear across every industry but especially in higher education, that paper, prone to fraud and human error, cannot simply keep up. This extraordinary convening marks the beginning of a long-term collaboration to tackle the problem of paper and improve the migration toward digitalization and electronic data exchange.

EdExchange will follow this featured session in the afternoon and on the following day PESC will host a cross-continent working discussion with the hope to align both initiatives and further the coordinated digitalization, standardization and exchange of student data.

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GLOBAL COLLABORATION TO ESTABLISH AN INTERNATIONAL SCHOOL CODE LIST

Moderator: Matthew Bemis, Associate Registrar, University of Southern California
Speakers: Rick Skeel, Director of Product Development, Ellucian
Dave Landry, Director of Data Exchange Services, National Student Clearinghouse
James Kelly, Senior Director of Technology, ECE

9:30am – 10:00am

Leaders at AACRAO, ECE, Ellucian, National Student Clearinghouse and the University of Southern California are reaching out to a number of countries from around the world to gather their school code lists, analyze them, crosswalk them and determine the scope and value of development of a master international school code list. With digitalization in higher education on the rise, the need for such a list becomes more vitally important. Housed under PESC's Global Data Mobility User Group, we expect a first milestone to be reached and are excited about sharing this progress with attendees.

EMERGENCE OF BLOCK CHAIN | ITS APPLICATION AND RELATION TO ACADEMIC CREDENTIALING

Moderator: Rajeev Arora, Senior VP, Product, Parchment
Speakers: Tom Black, Associate Vice Provost of Student Affairs and University Registrar, Stanford University
David Moldoff, CEO and Founder, AcademyOne

10:30am - noon

As the enabling force driving bitcoin, block chain technology is now being analyzed for applicability in higher education. A number of institutions and service providers are currently experimenting with and have been inspired by block chain. Most attractive is the ease of use to authenticate a credential, mobility, and the high level of trust achieved throughout the network. Panelists will provide a detailed demonstration of block chain technology, articulate its value proposition, and how it is being used globally in higher education and by whom. Discussion will include the alignment between the use of block chain, transcripts and other PESC Approved Standards, badges as well as the newly emerging Common Credential for Certificates, Degrees and Diplomas.

GLOBAL DATA STRATEGY PERSPECTIVES

Moderator: Patrick Elliott, Senior Associate Registrar, University of Maryland University College
Speakers: Tim Calhoon, Executive Director, California Community Colleges Technology Center
Lou Delzompo, CTO, California Community Colleges
Joanne Duklas, Researcher and Consultant, Canadian PESC User Group
Romesh Vadivel, Assistant Registrar and Director, McGill University

1:30pm – 3:00pm

TIM CALHOON, Executive Director of the California Community Colleges Technology Center, is a longtime champion of standards and technology and served as the original chair of PESC's Common Data Service Task Force, which launched EdExchange. Tim, joined by CTO **LOU DELZOMPO**, will discuss the evolution of data exchange, the vision of EdExchange and the challenges and benefits of aligning with other industry initiatives. Their presentation will include the mission of the Technology Center, its IT strategy, how PESC and PESC Approved Standards fit in, and the coordinated effort required to thread together the numerous initiatives to ensure achievement and positive outcomes.

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JOANNE DUKLAS and **ROMESH VADIVEL** will present the recently concluded survey results from the ARUCC Groningen and Student Mobility Task Force, formed in the Spring of 2014 with its mission of advancing student mobility through data exchange. One of the first action items of the Task Force was to ensure that ARUCC become the first Canadian signatory to the Groningen Declaration Network, which was accomplished in May 2015. The ARUCC Groningen and Student Mobility Task Force built awareness about the Groningen Declaration Network and the Task Force by sharing information with the broader ARUCC, CanPESC, CUCCIO, and PCCAT constituencies to raise awareness about the Groningen Declaration Network and the work of the Task Force. In pursuit of these objectives, the Task Force produced a national consultation survey that was sent to institutions and organizations across the country develop an understanding of their readiness and willingness to establish a national data-sharing model. The report and recommendations of the Task Force speak to the readiness and willingness of organizations across Canada to develop a nation-wide data-sharing network.

GLOBAL DATA STRATEGY PERSPECTIVES

Moderator: **Francisco Valines, Director of Financial Aid, Florida International University**

Speaker: **Jeffrey Alderson, Principal Analyst, Enterprise Software, Eduventures**
Alex Jackl, CEO, Bardic Systems

3:30pm – 5:00pm

Electronic portfolios are commonplace in academic programs, allowing faculty and students to prove mastery of content by showcasing artifacts created in a classroom context. This same technological approach is also being used across the student lifecycle, from admissions to career services and alumni engagement. **JEFFREY ALDERSON** of Eduventures will present findings from their review of 30 different portfolio vendors, and examples of how they are being used across the student lifecycle.

For those working in PK12, different factors than in higher education have significant impact and influence across the spectrum. Pulling it all together to provide seamless service for students becomes extremely complex with direction, guidance and requirements being issued separately by state education agencies and local education agencies before teachers and administrators are informed and prepare for expected teaching and learning outcomes. **ALEX JACKL** will discuss these influencing factors and the challenges in balancing sometimes competing demands of a hierarchical education system.

COMMON DATA SERVICES TASK FORCE & EDEXCHANGE *JOINT CONVENING W/ EWP*

In December 2011 PESC created the Common Data Services (CDS) Task Force with the mission to improve security, reliability, efficiency and speed in the transfer of education data. Leaders within the California Community College System requested this community development and service through PESC and submitted a formal, open Letter of Intent. After several years of analysis and planning to ensure alignment & interoperability with all other community-based initiatives, CDS formally launched EdExchange, EdExchange is a data exchange platform that enables the electronic exchange of standards-based data and digital documents between academic institutions and their service providers. Achieved through an open web services architecture and associated standards, EdExchange is designed as a peer-to-peer network providing a secure, reliable, and direct connection between institutions (whether direct or through their service providers) that avoids file-based technologies. Envisioned as open source, PESC is forging a relationship with Apereo as a partner. This session will focus on the additional administrative items necessary to produce these protocols, the launch of a pilot, along with an introductory conversation about additional governance over these protocols.

GLOBAL DATA MOBILITY USER GROUP & INTERNATIONAL SCHOOL CODE LIST

The GLOBAL DATA MOBILITY User Group serves as hands-on experts and data users across all of education that identifies new development ideas, standards, tools and resources to ensure PESC, its Members, PESC Approved Standards and the education community at-large can meet the demands on this growing digital economy. The User Group has begun work on its first deliverable - an International School Code List and this topic will serve as the agenda for part of the concurrent session. Leaders within PESC and the education community have been discussing this need for a number of years. Today's technological innovation with open, transparent collaboration (the cornerstone of PESC's foundation and guiding principle) and finally having reached the tipping point whereby

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most experts agree that such a list is not only needed but potentially impacts data quality, enable this goal and we are pleased and excited to host this initiative.

ACADEMIC CREDENTIALING & EXPERIENTIAL LEARNING TASK FORCE

A provocative question posed to Education today is how to capture learning that happens outside of the classroom. In addition to the traditional Academic Transcript, many are starting to use competency based transcripts and co-curricular/experiential transcripts as well. Both provide valuable information for admission into the education and workforce environment and both seem to be growing rapidly in use. While data standards are ultimately needed for all transactions in order to achieve full interoperability, final agreement has not been reached on the actual definitions of both items. While the market may need to mature more in order for data standards to be used and accepted, PESC formed its newest Task Force – Academic Credentialing & Extended Transcript. This Task Force is monitoring the community and is preparing PESC for any new standards as well as any extensions or additions that might be needed to existing PESC Approved Standards. The first deliverable of the Task Force is the Common Credential for Certificates, Degrees and Diplomas.

SEAL OF APPROVAL BOARD

The PESC Seal of Approval Program is a voluntary service offered by PESC for implementers of PESC Approved Standards to indicate a uniform level of implementation. Implementers must formally apply to PESC for the Seal of Approval using the official application and must submit a small, non-refundable fee to PESC. The service was designed to communicate to the community at large that a certain implementation of PESC Approved Standards has been uniformly implemented according to the original intent and spirit of the PESC Approved Standard. A Seal of Approval can be used by implementers to market products and services to demonstrate alignment and interoperability. The Seal of Approval Program is a formal process governed by specific policies and procedures and by a Seal of Approval Board (SAB), comprised of PESC member representatives appointed by the PESC Board of Directors. The Seal of Approval Program is a voluntary program of PESC and eligibility to apply is open and available to any organization or implementer in education.

STEERING COMMITTEE, CCB, TAB

The Technical Advisory and Change Control Boards of PESC govern the technical standards, the process by which a format is proposed as a PESC Approved Standard and all the technical documentation and tools needed to support the development and use of PESC Approved Standards. At this session, both Boards discuss the additions and revisions to data elements, the NIEM process and the relationship between PESC, XML and other emerging technologies like JSON.

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MENUS

LUNCH

WEDNESDAY OCTOBER 12

TOMATO BASIL BISQUE, CREAMY TOMATO, BASIL ESSENCE

MIXED GREENS, BABY SPINACH SALAD, DRIED CHERRIES, TOASTED NUTS, SHAVED RED ONIONS, BALSAMIC VINAIGRETTE

ROSEMARY CONFIT FINGERLING POTATO SALAD, ROASTED PORTOBELLA MUSHROOMS,

LEEKs, BABY SWEET PEPPERS

GARLIC ROAST CHICKEN, WILD MUSHROOMS IN A MERLOT REDUCTION

GRILLED SALMON, TOMATO CAPER RELISH

PENNE PASTA, SEASONAL ROASTED VEGETABLES, GREEN HERBS

SEASON STEAMED VEGETABLES

VANILLA CHEESECAKE, GRAHAM CRACKER CRUST, VANILLA MOUSSE

RECEPTION

WEDNESDAY OCTOBER 12

CRABCAKES

CHICKEN LEMONGRASS POTSTICKER

MINI CAPRESE SALAD

DECONSTRUCTED SPRING ROLL

ONE COMPLIMENTARY BEER OR WINE

CASH BAR

LUNCH

THURSDAY OCTOBER 13

MIXED GREENS, JICAMA, MANGO, CILANTRO VINAIGRETTE

HEIRLOOM TOMATO, CUCUMBER, RED ONION SALAD, BALSAMIC VINEGAR, FRESH BASIL

GRILLED CHICKEN BREAST, BALSAMIC ROASTED CIPPOLINI ONIONS, ROASTED RAINBOW CARROTS, HERB JUS

OVEN ROASTED BAJA CALIFORNIA SEA BASS, BLACK OLIVES, CAPERS, CITRUS SAUCE, GREMOLATA

QUNOA STIR-FRY, WITH SEASONAL GRILLED BEGETALBES, CITRUS OIL

ROASTED MARBLE NEW POTATOES, FRESH PARSLEY

WILD BERRY TARTLETS

WALNUT CARROT CAKE

CHOCOLATE DUO SHOOTER

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SERVICE AWARDS

2014-2015

Technology Center
California Community College System
Jeffrey Alderson
Eduventures

2013-2014

Brian Allison
USA Funds
Doug Holmes
OUAC
David Webber
Chair OASIS CAM Technical Committee

2012-2013

Hans L'Orange
SHEEO
Susan McCrackin
College Board

2011-2012

John C. Ittelson, Ph.D.
California State University Monterey Bay

Presidents Awards:

William Hollowsky
Joseph Giroux

2010-2011

Charles Leonhardt
Georgetown University
SPEEDE Committee
AACRAO

2009-2010

Kristi Blabaum
NASLA
Michael Morris
ACT, Inc.

2008-2009

Stephen C. Biklen
NASLA
David K. Moldoff
AcademyOne, Inc.
Clare Smith-Larson
Iowa State University

2007-2008

Judith Flink
University of Illinois

10th Anniversary Achievement Award:

Rick Skeel
University of Oklahoma

2006-2007

AACRAO
Jim Farmer
Georgetown University

2015 – 2016

Tom Black

Stanford University

Leisa Wellsman

Ontario Universities'
Application Centre

DISTINGUISHED SERVICE AWARDS

Many, many volunteers from the education community have helped shape PESC into the organization it is today & we truly thank everyone.

The success of PESC is due primarily to the valuable output (from white papers to approval and posting of standards) produced through workgroups and committees that are staffed and run by community representatives who volunteer their time and effort.

Certain individuals have gone above and beyond the call of duty and PESC takes the opportunity each Fall to recognize these individuals by awarding them with Distinguished Service Awards.

Distinguished Service Awards serve as our opportunity to say thank you for being a leader and for making a positive impact on education.

2005-2006

Ed Hauser
SunGard Higher Education
Keith Riccitelli
Sallie Mae
Tom Stewart
AACRAO SPEEDE

2004-2005

Tim Bornholtz
U.S. Department of Education
Mark Bolembach
SunGard SCT

2003-2004

Holly Hyland
U.S. Department of Education
Adele Marsh
AES
Dallas Martin
NASFAA
Bruce Marton
University of Texas at Austin

2002-2003

Jerry Bracken
Brigham Young University

2001-2002

Steve Margenau
Great Lakes Higher Education Corporation
Adele Marsh
AES
Bruce Marton
University of Texas at Austin
Paul Ness
Sallie Mae
Jeanenne Rothenberger
Purdue University
Michael Sessa
American Student Assistance

2000-2001

Rebecca Babel
ELM Resources
Ellen Blackmun
NASFAA
Steve Margenau
Great Lakes Higher Education Corporation
Karl Van Neste
The College Board

1999-2000

David Leonard
USA Group
Tim Pavlick
KPMG
David Stones
Harbinger

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PESC MEMBERS

AACRAO
AcademyOne
Accenture
Access 4 Learning
ACE
ACT
ApplyAlberta
Arizona State University
California Community College System
California State University System
Capella University
Central Connecticut State University
College Board
CollegeNet
Common Application
Community College of the Air Force
Cosumnes River College
Credentials Solutions
DecisionDesk
Digitary
Educational Credential Evaluators
Ellucian
Eduventures
ELM Resources
Elon University
Emory University
Florida International University
Federation of State Medical Boards
Georgetown University
Groningen Declaration Network
IERF
IMS
Indiana State University
Jenzabar
Kuali Foundation
Memorial University of Newfoundland
Michigan State University
NASLA
National Student Clearinghouse
Ontario College Application Service
Oracle
Ontario Universities' Application Centre
Paradigm
Parchment
Pittsburg State University
Purdue University
Simon Fraser University
Smart Catalog
Smarter Balanced Assessment Consortium
Southern Connecticut State University
Stanford University
University of Arizona
University of British Columbia
University of California at Berkeley
University of Denver
University of Idaho
University of Illinois System
University of Lethbridge
University of Louisiana at Lafayette
University of Maryland University College
University of Mississippi
University of Missouri System
University of Northern Iowa
University of Oregon
University of Phoenix
University of Puerto Rico System
University of South Florida
University of Southern California
University of Texas at Austin
University of Virginia
University of Wisconsin at Madison
USA Funds
Washington State University
Workday

PESC APPROVED STANDARDS

ACADEMIC EPORTFOLIO

ADMISSION APPLICATION

COLLEGE TRANSCRIPT

COURSE INVENTORY (CATALOG)

EDUCATION TEST SCORE REPORTING

FINANCIAL AID

HIGH SCHOOL TRANSCRIPT

IPEDS

NSLDS

PDF ATTACHMENT



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BOARD OF DIRECTORS

Doug Falk, VP & CIO *Chair*
National Student Clearinghouse

J. James Wager, Education Strategist, Consultant *Vice Chair*
Credentials Solutions

Patrick Elliott, Senior Associate Registrar *Treasurer*
University of Maryland University College

Brian Allison, VP Product *Secretary*
USA Funds

Rajeev Arora, SVP, Product
Parchment

W. Matthew Bemis, Associate Registrar
University of Southern California

Kristi Blabaum, Systems Integration Analyst
NASLA

Tuan Anh Do, Director of Enrollment Mgmt Technology
San Francisco State University

David Moldoff, CEO & Founder
AcademyOne

Michael Sessa, President & CEO
PESC

Rick Skeel, Director of Product Management
Ellucian

Francisco Valines, Director of Financial Aid
Florida International University

Andy Wood, VP of Higher ED Product Engineering
Oracle

MISSION & VISION

ENABLING GLOBAL PORTABILITY AS EDUCATION'S ONLY DATA STANDARDS BODY

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.

Powered by the dedication of volunteers from its membership base, PESC maintains a trusted, open and transparent collaborative environment. With this unique community perspective, PESC is breaking down costly, proprietary barriers & has mapped out a common, strategic path for the future.

This path includes continued development of common data standards, establishment & 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, and an eye on emerging technologies like social networking.

Partners

AACRAO
ARUCC

Groningen Declaration Network
Internet 2 / InCommon
SHEEO

US Department of Education

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BEST PRACTICES COMPETITION

Now in its 18th year, the Best Practices Competition is held to highlight and promote innovation and ingenuity in the application and implementation of interoperable data standards for business needs. First held in 1999, the Competition is open to institutions, associations, organizations, government agencies and departments, districts, consortia, non-profit and commercial service providers and other education stakeholders that have collaborated to design and/or adopt an electronic standardization initiative via a specific implementation, and/or other medium such as, but not limited to, published articles and white papers.

The 18th Annual Best Practices Competition for 2016 is open for submissions until close of business Friday March 31, 2017. Documents detailing the scope of a project, participants, type of standards employed, relevant dates of project milestones, copies of articles (if an article submission), outline of mission/objectives and any related statistics (number of transactions transmitted, estimated cost savings, etc.) should be included in the submission.

All entries should be submitted by March 31, 2017 to Michael.Sessa@PESC.org or at: Michael Sessa, President & CEO, PESC, 1250 Connecticut Avenue, NW Suite 200, Washington, D.C. 20036. All entries will be judged by the PESC Board of Directors. First place and those receiving special recognition will be notified immediately by PESC, an official public announcement will be made immediately before PESC's Spring Data Summit and the award presentation will be made during the general session of the Data Summit.

SAVE THE DATE



DIGITAL ACADEMIC CREDENTIALS

SPRING 2017 DATA SUMMIT

BEST PRACTICES IN EDUCATION DATA SYSTEMS

MAY 3-5, 2017 | EMBASSY ROW HOTEL