The Consumer Bankers Association (CBA), the Education Finance Council (EFC), the National Council of Higher Education Loan Programs (NCHelp), and the Postsecondary Electronic Standards Council (PESC) are pleased to announce the keynote address, “The Value of Standards,” for the 2nd Annual Conference on Technology and Standards will be provided by Delphi Group President and Founder Tom Koulopoulos.

Named one of the industry’s most influential information management consultants by Information Week magazine, Mr. Koulopoulos is recognized as an authority on the implications of information technology on global organizations, with articles and market insights appearing frequently in national and international print and broadcast media such as Business Week, The Wall Street Journal, Forbes, The Economist, CNBC, CNN, and NPR. Mr. Koulopoulos has written numerous books including “Smartsourcing: How to Drive Innovation, Jobs, and Growth in the age of Globalization” (to be released in the Fall of 2005) which looks at the core drivers and broad implications of outsourcing and globalization.

In a groundbreaking study, Delphi Group, a Perot Systems Company, gathered the responses of more than 800 end users, software vendors, and service providers to identify the current attitudes and expectations for software standards. The results portray a shifting landscape where standards create liquidity, the ability to leverage IT investment in unforeseen ways, and provide the foundation for long-term advances in the way software is built, bought, and deployed. Mr. Koulopoulos will present the findings of this study and provide his insights on the real value of standards.

General Sessions will target timely and strategic topics for higher education and will be provided by knowledgeable experts and leaders, including:
**Koulopoulos, from Page 1**

**FSA ADvance** – Katie Crowley, Deputy General Manager, Office of Federal Student Aid (FSA), US Department of Education. Ms. Crowley will discuss FSA’s efforts to integrate front-end business systems and processes.

**e-Authentication: Creating an Environment of Trust** – David Temoshok, Director of Identity Policy and Management, U.S. General Services Administration (GSA). Mr. Temoshok will discuss the federal government’s approach to providing interoperable authentication and introduce the Electronic Authentication Partnership (EAP), a multi-industry partnership working on the vital task of enabling interoperability among public and private e-authentication systems.

**PKI and the Federal e-Authentication Architecture** – Peter Alterman, Assistant Chief Information Officer, National Institutes of Health (NIH). The Federal e-Authentication Architecture looks to Public Key Infrastructure (PKI) to satisfy the requirements for electronic identity authentication at assurance levels 3 and 4, and allows PKI to be used at levels 1 and 2. This presentation will discuss the role of PKI in the overall Federal E-Authentication Architecture.

The agenda listing all General and Concurrent Sessions is now available online. Members and/or Affiliates from any of the four associations are eligible for the discounted registration rate of $600. The non-Membership rate is $800. Hotel reservations can be made now by contacting the Wyndham Washington directly at 202-429-1700 or at 800-996-3426. The Wyndham Washington is located at 1400 M Street NW in Washington, D.C. A conference rate of $175 has been reserved for single/double rooms and the group name is “PESC.” The cut-off date to receive this discounted rate is April 11, 2005. Conference registration is also available online at [http://www.PESC.org/Events/Tech-Conference-2.asp](http://www.PESC.org/Events/Tech-Conference-2.asp).

This conference includes the full support and participation of the US Department of Education’s Office of Federal Student Aid (FSA) and the National Association of Student Financial Aid Administrators (NASFAA) and is made possible by the generous sponsorship of Platinum Sponsors, The National Association of Student Loan Administrators (NASLA) and Sungard SCT; Gold Sponsors, AES and Nelnet; Bronze Sponsors, ELM Resources, and The Student Loan Servicing Alliance (SLSA).

If you have any questions, please contact Michael Sessa, PESC Executive Director, at 202-293-7383 or at Sessa@PESC.org.

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**Update on the EAP**

The Electronic Authentication Partnership has been incorporated in Delaware as a 501(c)(3) organization.

The EAP board chose the 501(c)(3) tax status for incorporation because the activities of the EAP serve public, charitable purposes (i.e., lessening the burdens of government).

In addition, the EAP board has approved a dues structure for EAP members. The document on page 14 shows the structure. All organizations that have signed the Letter of Intent to join will receive a phone call to review the dues structure, answer questions about membership, and invite them to join the EAP. Remember the 5% dues discount for your first-year dues if you join and pay your dues by September 17, 2005!

Meanwhile, if you have any questions, contact either: Jim at JALewis@csis.org or David at david.temoshok@gsa.gov.

If you have not yet signed the Letter of Intent and wish to do so, the link is: [http://www.eapartnership.org/docs/EAP_Letter_of_Intent.doc](http://www.eapartnership.org/docs/EAP_Letter_of_Intent.doc)
Nominations now Open for PESC Board of Directors

Please be advised that nominations for the PESC Board of Directors are now open. Representatives from MEMBER organizations (with dues paid current) are eligible to serve on the Board of Directors. The term of service is two years and runs July 1, 2005 – June 30, 2007. As terms of service are staggered on the Board of Directors, elections will be for five seats (total number of seats is 10). Nominations should be made with the form on page 5 and submitted to Michael Sessa at Sessa@PESC.org. When nominating, please ensure that the nominee is aware that a nomination is being made.

Elections will be held during PESC’s 7th Annual Membership Meeting scheduled for Monday May 2, 2005 from 4:30 pm – 5:30 pm EST at the Wyndham Washington Hotel (1400 M Street NW, Washington DC, 20005). Membership meetings are open to all PESC Members and Affiliates, and with prior notification, other interested parties. Please complete the Registration Form on page 6 for PESC’s 7th Annual Membership Meeting and return it by fax, email, or regular mail.

The schedule for elections will be as follows:

**Wednesday March 16, 2005**
Nominations Open

**Wednesday April 13, 2005**
Nominations Closed, Proxy Ballots Issued

**Wednesday April 27, 2005**
If not attending the Membership Meeting in person, this is the date by which Proxy Ballots must be received in PESC’s offices

**Monday May 2, 2005**
Elections held ~ 4:30pm EST

NOTE: If attending the 7th Annual Membership Meeting in person, Proxy ballots can still be submitted and then can either be replaced with an official vote on Monday May 2, 2005 or remain as the official vote.

EDUCAUSE Annual Policy Conference 2005 Announced

EDUCAUSE is sponsoring their Annual Policy Conference at the Fairmont Hotel in Downtown Washington, DC, April 6 and 7. This is the premier conference on federal policy affecting networking and information technology in higher education. Details at http://www.educause.edu/POL05

Two featured speakers have just been confirmed:

Rep. Fred Upton (R-MI), Chair of the House Telecommunications and Internet Subcommittee, will speak on “Telecom Reform: Issues and Challenges”.

Rep. Loretta Sanchez (D-CA), Ranking Member of the Subcommittee on Economic Security, Infrastructure Protection, and Cybersecurity, will speak on “National Policy Initiatives for Cybersecurity and Infrastructure Protection”.

Other sessions will cover the Supreme Court’s MGM v Grokster case (which will be heard by the Court next week), “Identity Management” in the public and private sectors, Cybercrime, global competitiveness, the convergence of telecommunications and Internet services, and a variety of other topics.

Apart from the formal presentations, the conference offers an opportunity to make valuable connections with other campus leaders and with key federal policy makers.

PESC Welcomes New Member

The Common Application
www.CommonApp.org
PESC Contact is Rob Killion, Executive Director.
OASIS announced March 14 that its members have approved the Security Assertion Markup Language (SAML) version 2.0 as an OASIS Standard. SAML v2.0 helps make vendor-independent Web single sign-on and secure e-business transactions possible. SAML leverages core Web services standards including XML, SOAP, Transport Layer Security (TLS), XML Signature (XMLSIG), and XML Encryption (XMLENC). For more information, visit http://www.oasis-open.org/committees/security/

A hacker broke into the computer containing records for SEVIS at the University of Nevada at Las Vegas, gaining access to personal information on about 5,000 international students and scholars, according to a Chronicle of Higher Education article. University officials immediately took the affected database offline and notified the FBI, which is looking into the case.

A recent article in The Chronicle of Higher Education gives five reasons not to “get all goggle-eyed” over Google’s intentions to digitize the holdings at several libraries. The five reasons listed are possible copyright infringement, past failures of four other companies that undertook similar projects, issues with preserving books throughout the hardship of digitizing, the future of Google itself and ecological concerns associated with “thousands of students, faculty and staff members, and other library patrons all punching that print key.”

A recent NewsForge article examines a variety of open source XML editing utilities. The article specifically discusses Quanta, Bluefish, KXml Editor and Screem, among others. Ultimately, the article concludes that despite some deficiencies, these applications are superior to expensive proprietary alternatives. For more information, visit http://programming.newsforge.com/article.pl?sid=05/02/24/1650248&tid=57&tid=132

UN/CEFACT has announced that its XML Naming and Design Rules Technical Specification has completed a public review period and is now ready for Implementation Verification. The NDR describes and specifies the rules and guidelines that will be applied by UN/CEFACT when developing XML schemas. The document has been re-released as Version 1.1 and may be downloaded from the ATG web site. For more information visit, http://xml.coverpages.org/ATG2-NDR-ImplVer.html

A recently released Adobe white paper examines the history, business drivers and the standards that may be used to implement Service Oriented Architecture (SOA). SOA is based on the use of distributed objects and components and is the next evolutionary step in computing environments, according to the paper. For additional information, visit http://xml.coverpages.org/soa.html#AdobeSOA20050221

UT Austin Internet Server ‘SPEEDEs’ Along

February 2005 volume included:

- 32,634 TS130 transcripts
- 26,634 TS131 acknowledgements
- 5,624 TS997 functional acknowledgements
- 34,888 TS189 admission Applications
- 17,307 TS138 test score reports
- 130,350 total transactions
NOMINATION FORM

PESC BOARD OF DIRECTORS

Elections to be held:
May 2, 2005
4:30 pm – 5:30 pm EST
Wyndham Washington DC
1400 M Street NW
Washington, D.C. 20005

Nominee Full Name

Title and Organization

Street Address

City, State and Zip

Phone     Fax    E-mail Address

Please complete this form and return it to PESC:

Postsecondary Electronic Standards Council
One Dupont Circle NW
Suite 520
Washington DC 20036
Fax: 202-872-8857
Email: Sessa@PESC.org

www.PESC.ORG
REGISTRATION FORM

PESC 7TH ANNUAL MEMBERSHIP MEETING

Wyndham Washington DC
1400 M Street NW
Washington, D.C. 20005

May 2, 2005
4:30 pm – 5:30 pm EST

Attendee Full Name

Title and Organization

Street Address

City, State and Zip

Phone    Fax    E-mail Address

Please complete this form and return it to PESC:

Postsecondary Electronic Standards Council
One Dupont Circle NW
Suite 520
Washington DC 20036
Fax: 202-872-8857
Email: Johnson@PESC.org

www.PESC.ORG
# Program at a Glance

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<tr>
<th>Monday May 2</th>
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<th>Continental Breakfast</th>
<th>Vista Ballroom Foyer</th>
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<td>7:30am – 4:15pm</td>
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<td>8:30am – 8:45am</td>
<td>General Session - <em>Welcome and Opening Remarks</em></td>
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<td>8:45am – 9:00am</td>
<td>General Session - <em>Awards and Special Recognitions</em></td>
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<td>9:00am – 10:15am</td>
<td>Keynote Session – <em>Value of Standards</em></td>
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<td>General Session – <em>Evaluating Open Source</em></td>
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<td>Lunch – <em>e-Authentication: Creating an Environment of Trust</em></td>
<td>Monticello Ballroom</td>
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<td>Concurrent Session – <em>XML Registry and Repository for the Education Community</em></td>
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<td>Concurrent Session – <em>Data Transport</em></td>
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<td>Concurrent Session – <em>Open Source Discussion Group</em></td>
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<td>Concurrent Session – <em>Common Record: CommonLine Implementation</em></td>
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<td>Concurrent Session – <em>Bridging the Gap – Secondary to Postsecondary</em></td>
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<td>4:30pm – 5:30pm</td>
<td>PESC 7th Annual Meeting</td>
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<td>Tuesday May 3</td>
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<td>Continental Breakfast</td>
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<td>General Session – <em>PKI and the Federal E-Authentication Architecture</em></td>
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<td>General Session – <em>ANNOUNCING: XML Launch of Admissions Application</em></td>
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<td>10:15am – 11:45am</td>
<td>General Session – <em>FSA ADvance</em></td>
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<td>Noon – 1:30pm</td>
<td>Lunch – <em>Wireless Technology</em></td>
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<td>Concurrent Session – <em>Authentication and ID Management</em></td>
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<td>3:15pm – 4:30pm</td>
<td>Concurrent Session – <strong>.NET and Java Interoperability</strong></td>
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<td>Concurrent Session – <a href="#">Designing a Security Program for Your Campus</a></td>
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<td>Concurrent Session – <strong>PKI and Electronic Forms</strong></td>
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<td>5:00pm – 6:30pm</td>
<td>Reception</td>
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<td><strong>Wednesday May 4</strong></td>
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<td>8:30am – 9:45am</td>
<td>Concurrent Session – <strong>SPEEDE Update</strong></td>
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<td>Concurrent Session – <strong>ESC Update</strong></td>
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<td>Concurrent Session – <strong>Liberty Alliance</strong></td>
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<td>Concurrent Session – <strong>Open EAI</strong></td>
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<td>Concurrent Session – <strong>Using Shibboleth at Your Organization</strong></td>
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<td>Concurrent Session – <strong>Harnessing New Technologies to Deliver Product Enhancements to Customers</strong></td>
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Program

Monday May 2, 2004

7:30am – 4:15pm  Registration  Vista Ballroom Foyer
7:30am – 8:30am  Continental Breakfast  Vista Ballroom Foyer
8:30am – 8:45am  General Session  Vista Ballroom
   Welcome and Opening Remarks
   Speaker:  Michael Sessa, Executive Director, PESC
8:45am – 9:00am  General Session  Vista Ballroom
   Best Practices and Distinguished Service Awards
   Speaker:  Keith Riccitelli, Director of Global Sourcing, Sallie Mae; Chair, PESC Board of Directors
9:00am – 10:15am  Keynote Session  Vista Ballroom
   The Value of Standards
   Moderator:  Michael Sessa, Executive Director, PESC
   Speaker:  Tom Koulopoulos, President and Founder, Delphi Group
   The climate of economic constraint and risk aversion along with the mandate to integrate systems on both sides of the firewall has created a sea of change in the sense of imperative to adopt software standards. In this climate, standards create liquidity – the ability to leverage IT investments in unforeseen ways. In the groundbreaking study “The Value of Standards,” Delphi gathered the responses of more than 800 end users, software vendors, and service providers to identify the current attitudes and expectations for software standards. The results portray a shifting landscape where standards will provide the foundation for long term advances in the way software is built, bought and deployed. Mr. Koulopoulos will review the findings of this study and provide his insights on the real value of standards.
10:15am – 10:30am Break  Vista Ballroom Foyer
10:30am – 11:45am General Session  Vista Ballroom
   Evaluating Open Source
   Moderator:  Dave Moldoff, President, Strategic Explorers; PESC Board of Directors
   Speakers:  David Lambert, CIO, Georgetown University (invited)
   Open Source provides tremendous ability for programmers to adapt code to meet unique and customized needs. But is Open Source right for you? This session will discuss some of the history of Open Source, the dilemma higher education faces, and discusses the pros and cons of Open Source.
12:00pm – 1:30pm Lunch – General Session  Monticello Ballroom
   e-Authentication:  Creating an Environment of Trust
   Moderator:  Steve Biklen, Board of Directors, PESC
   Speaker:  David Temoshok, Director of Identity Policy and Management, GSA Office of Government-wide Policy
   In today’s environment, authentication of a given individual is almost always carried out by each individual organization for the same person. If two organizations with to trust each other’s authentication processes, they must negotiate a bilateral agreement. As the number of authenticating organizations grows, the number of agreements grows exponentially. To tackle these issues and problems raised by attempts at interoperability, government agencies, commercial entities, and non-government organizations should work together effectively and efficiently toward a common goal. Mr.
Temoshok will discuss the federal government’s approach to providing interoperable authentication and introduce the Electronic Authentication Partnership (EAP), a multi-industry partnership working on the vital task of enabling interoperability among public and private e-authentication systems.

1:30pm – 2:45pm  Concurrent Sessions

eOscar Credit Reporting Requirements  Vista Ballroom A
Moderator: Harrison Wadsworth, Washington Partners
Speakers: TBD

In this session, the new requirements for credit reporting will be discussed.

XML Registry and Repository for the Education Community  Vista Ballroom B
Moderator: Ane Johnson, Membership Coordinator, PESC
Speakers: Holly Hyland, Management Analyst, Integration Team, FSA, US Department of Education; Steering Committee, Standards Forum for Education
Tim Bornholtz, Senior System Integration Architect, FSA, US Department of Education

The XML Registry and Repository for the Education Community is now available for public use. Come to this information/training session to hear about the history, vision, and practical usage of this new application designed to assist and advance standards development.

Data Transport  Vista Ballroom C
Moderator: Mark Putman, Assistant Vice President, Technology Relations, NCHELP
Speakers: Nathan Chitty, Software Architect, Nelnet
Mark A. Malinoski, Technical Coordinator/Web Development, AES

This session will outline the technical challenges and issues the Data Transport Workgroup, functioning under the Standards Forum for Education, is looking to address and solve. The team leads of the Workgroup will also discuss the history of the effort, its goals, and summarize what the Workgroup has accomplished to date. Examples of live reference implementation code will also be illustrated.

2:45pm – 3:00pm  Break  Vista Ballroom Foyer

3:00pm – 4:15pm  Concurrent Sessions

Open Source Discussion Group  Vista Ballroom A
Moderator: Adele Marsh, Vice President of Industry Initiatives, AES; Steering Committee, Standards Forum for Education
Speakers: Tim Cameron, Project Manager, Meteor
Mark Olson, Executive Vice President, Sales and Marketing, Campus Partners

A distinguished panel of experts involved with a variety of Open Source projects will discuss the pros and cons of implementing Open Source products. Bring your questions and concerns and be prepared to join this fast-paced discussion.

Common Record: CommonLine Implementation  Vista Ballroom B
Moderator: Lisa Oldre, Director of Industry Standards, ELSC; NCHELP Electronic Standards Committee
Speakers: Gary Allen, Product Manager, Oracle USA, Inc.; NCHELP Electronic Standards Committee
Dave Steiner, Project Manager, Foundation for Educational Services (FES); NCHELP Electronic Standards Committee

This session will explore some very worthwhile improvements in the CommonRecord:CommonLine (CR:C) format that will benefit school financial aid offices as well as lenders, servicers and
other organizations. Functionality that will be discussed includes: Reducing or eliminating the need for
double entry of changes; support for more than four disbursements; ability for more specific status
reporting; ease development of change processing by allowing your software providers to make
processing enhancements more quickly, and; reduce exception processing, particularly resulting from
change processing. Hear first-hand of the challenges and lessons learned by analysts and developers
during their implementation and testing of CR:C and gain understanding of the importance of its
implementation.

**Bridging the Gap – Secondary to Postsecondary**
Vista Ballroom C
Moderator: Dave Stones, Registrar, Southwestern University; AACRAO SPEEDE Committee
Speakers: Bruce Marton, Associate Director of SIS, University of Texas @ Austin; Steering
Committee, Standards Forum for Education; AACRAO SPEEDE Committee
George Hudacheck, Associate Director of Admissions, University of Minnesota;
AACRAO SPEEDE Committee

An XML standard for the High School Transcript is currently being developed by a Workgroup
under the PESC Standards Forum for Education. This XML High School Transcript is based
on the existing PESC standard for the College Transcript and is designed to facilitate
exchanges between High Schools and Colleges as well as from local schools to district and
state-level agencies. With its goals of increasing accuracy and lowering costs, it incorporates
prior standards developed for SPEEDE/ExPress and the newer NCES SCED Project,
including grades, grading scales, test scores, immunizations, and standardized course
numbering. Learn about initiatives underway in California, Georgia, Texas and elsewhere that
hope to take advantage of this standard.

4:30pm – 5:30pm  PESC 7th Annual Meeting  Vista Ballroom B

**Tuesday May 3, 2004**

7:30am – 4:15am  Registration  Vista Ballroom Foyer
7:30am – 8:30am  Continental Breakfast  Vista Ballroom Foyer
8:30am – 9:15am  General Session  Vista Ballroom
**PKI and the Federal E-Authentication Architecture**
Moderator: Conway Casillas, Director of Communications, Membership, and Technology, EFC
Speakers: Peter Alterman, Ph.D., Assistant CIO, E-Authentication, NIH and Chair, Federal PKI
Policy Authority

The Federal E-Authentication Architecture looks to Public Key Infrastructure (PKI) to satisfy the
requirements for electronic identity authentication at assurance levels 3 and 4, and allows PKI to be
used at levels 1 and 2. This presentation will discuss the role of PKI in the overall Federal E-
Authentication Architecture.

9:15am – 10:00am  General Session  Vista Ballroom
**ANNOUNCING: XML Launch of Admissions Application**
Moderator: Michael Sessa, Executive Director, PESC
Speakers: Ed Hauser, General Manager, Sungard SCT
Graham Tracey, Product Manager, Datatel

The use of XML is on the move in every industry and higher education is no different. With the College
Transcript approved as a PESC standard and development work in full swing on the High School
Transcript, the higher education community is ramping up to standardize the Admissions Application in
XML as well. This session will discuss plans for this development workgroup and discuss the other various development efforts currently in process.

10:00am – 10:15am  Break  Vista Ballroom Foyer

10:15am – 11:45pm  General Session  Vista Ballroom
FSA ADvance
Moderator: Holly Hyland, Management Analyst, Integration Team, FSA, US Department of Education; Steering Committee, Standards Forum for Education
Speakers: Katie Crowley, Deputy General Manager, FSA, US Department of Education

The US Department of Education's Office of Federal Student Aid (FSA) developed and implemented a multi-year sequencing plan for system and business process integration. The next phase of this effort is the ADvance initiative (formerly FEBI). Through ADvance, FSA is modernizing and integrating its core business functions through the reengineering, retirement, and replacement of existing legacy systems. The ADvance solution creates a fully integrated aid application, Pell Grant and Direct Loan origination, and disbursement system that consolidates and streamlines common functions and offers end-to-end, online view of financial aid information for customer service representatives, schools and students. Come hear about the vision, goals, and timelines for this new development process.

12:00pm – 1:30pm  Lunch  Monticello Ballroom
General Session – Wireless Technology
Moderator: TBD
Speakers: TBD

1:45pm – 3:00pm  Concurrent Sessions  Vista Ballroom A
XML Parsers and XSLT
Moderator: Adele Marsh, Vice President, Industry Initiatives, AES; Steering Committee, Standards Forum for Education
Speakers: Tim Bornholtz, Senior System Integration Architect, FSA, US Department of Education

Want to learn the latest about the techie tools of XML? Then this is the session for you as we will discuss the different types of XML parsers and the pros and cons of each. This session will also demonstrate the powerful tools available for XML such as XSLT and XSL-FO – tools that can be used to transform XML and print XML. We will also discuss interesting advances in XML tools.

Authentication and ID Management  Vista Ballroom B
Moderator: TBD
Speakers: TBD

How do you identify a user? How do you know you can trust them? Could your organization benefit from using a Federated Authentication model to share credentials with your business partners? This session will discuss the business drivers that may precipitate changing authentication models. Topics will include discussion on the risks, benefits and opportunities surrounding newer authentication models like Federated Authentication.

Security and Privacy: Panel of Perspectives  Vista Ballroom C
Moderator: Monique Snowden, Texas A & M University
Speakers: Rick Skeel, Registrar, University of Oklahoma; AACRAO SPEEDE Committee
Srinivasa Kankanahalli, Senior Manager, FSA
Jack Suess, CIO, University of Maryland – Baltimore County; Co-Chair, EDUCAUSE/Internet2 Security Task Force

In the wake of international events and even recent large scale institutional security breaches, security and privacy have risen to the top of everyone’s priority list. No longer an issue just for IT to figure out,
all sectors must now evaluate how information and data is to be protected, stored, and shared. This panel of knowledgeable experts will discuss security and privacy issues along with the potential for fraud and abuse from their respective perspectives.

3:00pm – 3:15pm  Break  Vista Ballroom Foyer

3:15pm – 4:30pm  Concurrent Sessions

**.NET and Java Interoperability**  Vista Ballroom A
Moderator: Randy Mertens, Director of Industry Relations and Market Research, Nelnet
Speakers: Nathan Chitty, Software Architect, Nelnet
Mark A. Malinoski, Technical Coordinator/Web Development, AES

This session will discuss the technical issues related to interoperability encountered and overcome while working on the Data Transport Workgroup. The team leads will present and explain the obstacles encountered while attempting .Net and Java web services communications and the techniques used to overcome them.

**Designing a Security Program for Your Campus**  Vista Ballroom B
Moderator: Joseph Giroux, Technology Consultant, California Community College System
Speakers: Jacqueline Craig, Director of Security Policy, Office of the President, University of California System

Ensuring the reliability, robustness, and security of information technology systems managed by campus units and for the customers they serve is a critical responsibility for campus management. Management must also offer guidance and direction to decentralized units to ensure the reliability of distributed systems and devices that attach to campus networks. Addressing IT Security involves policy, assignment of responsibility, and oversight. It requires preparedness against known risks and vulnerabilities, detection of attacks or penetration attempts, practiced procedures for responding to incidents, and constant review and enhancement of established procedures and policies as new vulnerabilities arise. This presentation will discuss methods to construct these strategies into a cohesive campus security program, a framework for identification of management strategies and implementation of security measures to reduce risks to campus electronic information assets.

**PKI and Electronic Forms**  Vista Ballroom C
Moderator: Peter Alterman, Assistant CIO, E-Authentication, NIH and Chair, Federal PKI Policy Authority
Speakers: Scott Rea, Programmer, Dartmouth College

With the signing of Homeland Security Presidential Directive-12 (HSPD-12), Federal Agencies have begun planning to implement digital signature technology (PKI) to secure physical and logical access to government resources. With PKI poised to spread throughout the Federal enterprise within a short period of time, Agencies will be looking for opportunities to utilize their investment in this technology in program areas. This session presents early initiatives, both within government and within higher education, to apply digital signature technology to electronic forms applications. This session will also address PKI enabling the PESC XML Postsecondary Transcript.

5:00pm – 6:30pm  Reception  Vista Ballroom

**Wednesday May 4, 2004**

7:30am – 11:30am  Registration  Vista Ballroom Foyer

7:30am – 8:30am  Continental Breakfast  Vista Ballroom Foyer
8:30am – 9:45am  Concurrent Sessions

**SPEEDE**  
Vista Ballroom A  
Moderator: Rick Skeel, Registrar, University of Oklahoma; AACRAO SPEEDE Committee  
Speakers: Barry Billings, Business Analyst, OUAC; AACRAO SPEEDE Committee  
Clare Smith-Larson, Systems Support Specialist, Iowa State University; Chair, AACRAO SPEEDE Committee  
Tom Stewart, AACRAO SPEEDE Committee

SPEEDE is a standing committee of The American Association of Collegiate Registrars and Admissions Officers (AACRAO) and has been in existence since the early 1990s. Members of the SPEEDE Committee will discuss our history, our efforts related to EDI, our current projects in XML and EDI, and talk about future directions for the higher education community. Come and learn who we are, what we are doing, and what we are planning for the future to help the higher education community move forward in electronic data standards.

**ESC**  
Vista Ballroom B  
Moderator: Mark Putman, Assistant Vice President, Technology Relations, NCHELP  
Speakers: Rhonda Allen, Product Manager, SCT Banner Financial Aid, Sungard SCT  
Brian Allison, USA Funds; Co-Chair NCHELP Electronic Standards Committee  
Robert King, Director of Industry Initiatives, Citibank – The Student Loan Corporation; Co-Chair NCHELP Electronic Standards Committee

The NCHELP Electronic Standards Committee (ESC) epitomizes collaborative standards setting within an industry, even among hard core competitors. For over ten years the ESC has been creating standards that have improved and facilitated the delivery of federal loan and private loan financial aid to the nation’s schools and students through the detailed efforts of a number of advisory teams. Learn about the accomplishments, ongoing efforts, and work organization of the ESC, along with some of the complexities it has faced in promoting industry-wide adoption of voluntary standards.

**Liberty Alliance**  
Vista Ballroom C  
Moderator: TBD  
Speakers: Dave Edstrom, Technical Director, Sun Microsystems

This session will provide an overview and update on the Liberty Alliance of which Sun Microsystems is a key founding member. Businesses and consumers want benefits of being connected anytime, anyplace – without compromising security or control of personal information. The Liberty Alliance provides the technology, knowledge, and certifications to build identity into the foundation of mobile and web-based communications and transactions.

9:45am – 10:15am  Break  
Vista Ballroom Foyer

10:15am – 11:30am  Concurrent Sessions

**Open EAI**  
Vista Ballroom A  
Moderator: TBD  
Speakers: Stephen Wheat, Director of Enterprise Architecture, Administrative IT Services, University of Illinois  
Tod Jackson, University of Illinois

**Using Shibboleth at Your Organization**  
Vista Ballroom B  
Moderator: Tanya Vittitow, OSLA  
Speakers: Melissa Kunes, Director of Federal and State Aid Programs, Pennsylvania State University  
Steven Carmody, Brown University
In this session, we will explore the business and legal issues of one university's decision to implement a transitive trust model of authentication for their financial aid products. Then we will hear about the latest news and activities from the Shibboleth Project. Come find out about the new tools and features available to assist with your implementation.

**Harnessing New Technologies to Deliver Product Enhancements to Customers**

**Moderator:** TBD

**Speakers:** Rhonda Allen, Product Manager, SCT Banner Financial Aid, Sungard SCT

A panel of representatives from software developers and other service providers discuss the potential for using new technologies in their school based software and web services.
CR:C Version Control & Change Management
Randy Mertens, Nelnet

The topic of version control for CR:C as it relates to the schema, implementation guide and testing tool produced some lively discussion at the recent ESC meeting in San Diego.

In an attempt to assist the industry participants in managing changes to the schema, implementation guide and testing tool a proposal was made and approved to adopt schema 1.0.2, implementation guide 1.0.6 and testing tool 1.0.6 as the minimum coding and testing standard that participants must use. In an effort to eliminate confusion with the multiple version numbers of the standards for these three items, ESC has gained approval from PESC to synch up these version numbers by moving a five digit numbering system. All prior versions of the schema and implementation guide contained flaws are now obsolete.

(Continued on page 2)
CR:C Version Control & Change Management

(Continued from page 1)

Given the newness of this process changes will be inevitable, especially, as more rigorous testing within the industry continues, additional problems will surface that require changes. As a point of reference, when the FSA implemented COD, it took them six iterations before they stabilized the schema. Every effort will be made to minimize the changes. We will follow the PESC guidelines and implement our changes with quarterly releases. A suggestion was made during the San Diego meeting to form a controlled Beta testing group of various industry participants including lenders, guarantors, servicers and FAMS in an effort to work through many of the unknown issues. This will help to create a more stable product without the effort of the full ESC community. A written proposal will be drafted and distributed to the ESC membership for review and consideration in the near future.

Now that ESC has the minimum baseline standards established, it should be noted that not all the future changes would require entities to update their schema versions quarterly. Any future schema changes which are classified as minor or micro must be backwards compatible with the earlier version. For example, an instance document created using schema version 1.0.2, which is sent to an entity using a newer schema version 1.0.3, will be compatible with this newer version. These types of changes would not require an entity to update their schema version in order to be able to exchange files with trading partners using a newer version of the same major schema. If changes to the schema are classified as a major change, then all trading partners must be on the same major version of the schema for instance documents exchanged to be compatible.

Outlined below are definitions and examples of major, minor and micro changes adopted by PESC and FSA.

Major Version Change: something that would make a basic change to the core components that would make a value no longer valid (e.g. dashes in SSN were valid and now they are not, changes to core components definition, change to a tag name (which essentially is adding a new element), change to a complex element. A major version change could cause the schema to be more restrictive.

Minor Version Change: adding a new value for an element. A new valid value, a change to a base type that does not remove previously valid values, meaning a CRC document created on an older version will be recognized in a newer version.

Micro Version Change: changes to the documentation or comments in the schema itself.

The version control and change management policies and procedures will hopefully help eliminate some of the confusion surrounding the development and implementation of CR:C. However, the real key to successfully implementing CR:C will be directly tied to our testing efforts with our trading partners in the industry, especially with the FAMS vendors.

We welcome your feedback! What would you like to see in a future issue? Any suggestions or issues with existing articles, please contact Erin Rose at:

erin_rose@keybank.com
The EEAT Team members have been participating extensively in the PESC Data Transport Standard (DTS) effort over the last few quarters. In the ESC meeting held in San Diego, the following topics to be addressed were identified:

- Automated Key Exchange Management
- DTS as it applies to the FFEL community
- FTPS/S-FTP
- Push / Pull model of FTP transport

The “Automated Key Exchange Management” concept in a nutshell is another “out-of-band” method for validating receipt of a new public key. The level of "automation" is completely dependent on the recipients' current system and volume. This new method will strictly be an addition to current methods, not a replacement. The goal of this approach is to simplify the overhead of key management, in both personnel and time requirements. The group will be creating a recommendation document outlining this new approach before the next ESC Quarterly meeting.

The Data Transport Standard is getting very close to being finalized. The EEAT will have a critical role in defining how it is implemented in the FFEL community as a new transport along side POP3 and FTP. With the hopes that it eventually replaces POP3 since it offers Guaranteed Delivery. The “Automated Key Exchange Management” concept will most likely use DTS in at least one manner and maybe more. The focus for defining DTS implementation will be to map what currently exists in the Basic Track transport to how it relates to DTS or how DTS provides the same support. We are all very excited to see this on the horizon.

With security always a looming concern we will address using “Secure” FTP. Several organizations have already implemented secure FTP servers and clients, so we have the advantage of being able to learn quickly. While today the file itself is protected via asymmetric encryption, the addition of FTPS/S-FTP (or maybe replacement of standard FTP by it) will make all communications to the server encrypted and thus the server less vulnerable. The EEAT will be researching more on this subject and are looking forward to the input of our members that have done this already.

The FTP implementation standard described in the current Technical manual involves a “Push-Push” model of exchanging files. “Push-Push” models of exchanging files require each institution to access the receiving organization’s FTP server and place the file in the sending organization’s designated directory. This model requires every institution that is transmitting via FTP, to have its own FTP server. It is a known fact that many institutions want to send data via FTP but do not have the resources to establish their own FTP server for receiving files. This issue has caused many institutions to deviate from the explicit FTP implementation outlined in the manual by allowing institutions to come “pull” data from its FTP server. There is a survey on the NCHELP EEAT site http://committees.nchelp.org/esc/eeat/default.aspx (Quick Launch) that is being taken so that we can add the most common implementations of this "pull" model to the manual so that a standard methodology can be established. The goal is to not require institutions that already have an established process to change, so realize that there may be a couple of different solutions documented.
GAMAT Team Update
Rob Boisen, Great Lakes

Things have been fairly quiet on the GAMAT front over the past quarter. There were no major issues brought to the team for review since the last ESC meeting.

Our main activity over the past quarter continues to be CAM documentation revision. CAM was last revised in July of 2001. Since that time many issues have been brought before the GAMAT team. Some of these issues resulted in rulings that required documentation revisions.

The team identified all such changes, and completed the documentation revisions late in 2004. (There were less than 20 issues that required documentation revisions).

The GAMAT met at the October 2004 ESC meeting in Washington DC with the goal of completing the review of the documentation revisions. We had a very good turnout for this effort, 22 people attended. The team completed final review of the documentation revisions.

A short review period followed to allow any GAMAT members who had not had a chance to participate time to review the changes. The review period was from October 20-29, 2004. No additional input was received and the documentation revisions were considered finalized as of October 29.

Next Steps:
There remains one task to complete before the revised CAM documentation is released, and that is the creation of separate revisions documents for each chapter that was changed.

During the course of our documentation revision effort we had created a single comprehensive revisions document that contained a large amount of detail on all of the changes, including the summary of the issues that precipitated the change, notes on the GAMAT decisions which precipitated the revision along with the location of each change within the CAM manual.

It has been suggested that we create separate revisions documentation for each chapter affected, similar to what was done for the last CAM revision of July 2001. In addition we are highlighting changed documentation within each chapter as well to make it easier to locate the revisions.

We have just recently found volunteers to help with this task, and the work is currently underway.

Our goal is to have the documentation published before the April ESC meeting in San Antonio.

Originations Standards Advisory Team Update
Kristi Blabaum, Great Lakes

The Origination and Disbursement (O/D) and Change Transaction (Change) Advisory Teams have merged into one group now called the Origination Standards Advisory Team. The team is currently focused on resolving new issues related to the Common Record: CommonLine (CRC) Implementation Guide and its corresponding schemas. Since the last board report the team has implemented a quarterly release schedule. At a maximum, the releases include the schema updates and documentation updates on the 15th of January, April, July, and October. If there are no updates to be made, a release will not be made in that quarter. The testing tool is released soon after the final documentation. The ESC committee also voted in January, to require the baseline version used for CRC development and testing to be version 1.0.6 of the

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Originations Standards Advisory Team Update
(Continued from page 4)
documentation and version 1.0.2 of the schema. This decision was made because of inaccuracies in documentation and the schema rendering prior versions invalid.

The volume of issues submitted has decreased enough that the Originations Standards Advisory Team members are attending bi-weekly conference calls held to address both outstanding and new CRC issues and necessary documentation revisions. If an immediate answer is needed prior to the bi-weekly call, an issue needs to be entered through the normal process with the word URGENT included in the Issue Description, so that one of the team leads will attempt to answer the issue. The issue and the response will be added to the agenda for the team to review on the next scheduled call. Currently, the team receives 4 to 6 new issues a week. If the issue volume does increase in the future, the advisory team may return to a weekly call schedule. Outstanding and new CRC issues will continue to be discussed on existing bi-weekly conference calls.

Going forward, the advisory team will continue to focus on issue resolution and version management issues as they arise. Expectations are that the implementation, version management and issue resolution of the new CRC process will consume most of our time over the next year.

CR:C Testing Process Laid Out
Jeannette Miller, Sallie Mae
Darwin Peiffer, AES

At the January 24-26 Electronic Standards Committee General Meeting, Darwin Peiffer, Co-Chair of the Testing and Certification Advisory Team, outlined an overview plan on how to proceed with interagency CR:C testing. The plan discussed was the actual proposal developed five years ago, when this same Advisory Team developed a plan to implement CommonLine Release 5 interagency testing. The basic plan is as follows:

Organizations will be grouped into three broad classifications. Those classifications are:
1. Organizations that have not begun interagency testing
2. Organizations with one or more successful interagency tests
3. Organizations fully tested (successful testing with 5 or more organizations)

When an organization is ready to test, they can complete a “Ready to Test” document, which will be made available on the NCHELP website. All organizations that are ready to test, based upon completing this document, can then commence testing with one another. Once testing is completed between two organizations, they each would complete a “Testing Completed” document, which would be forwarded to update information on the classification of each organization.

An Excel document, with separate sections for Loan Processors and SBS Providers, has been developed for communicating readiness. It is proposed that a similar document be developed, and be incorporated into the current Readiness Document; giving a single location to access to information. This would allow any guarantor, school, lender, etc., to view the CR:C progress of service providers as they deal with implementation and testing as well.

Both, the Originations Standards Advisory Team and voting members present on Day 3 of the general meeting, agreed to move forward with this testing plan. Subsequent

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CR:C Testing Process Laid Out
(Continued from page 5)

to the San Diego meeting, the Advisory Team began the task of developing the means to implement this plan. Erin Rose, Chairperson of the Communication and Training Advisory Team, was invited to participate, to see if that team could be involved in the implementation. It was agreed upon that the Communication and Training team should play a role, especially in maintaining and updating of the Readiness Document.

When the details of this plan are finalized, it will be presented to the ESC General Committee for their approval. Once approved, this process could be in place, as early as late April 2005. However, organizations ready to test prior to that time should continue to test, and simply update the Readiness Document, when it becomes available.

Message from the Chairs
(Continued from page 1)

organizations that already coded to prior Implementation Guide and schema versions.

Based on the industry’s past CommonLine implementation experience, this decision was expected. In addition, all organizations should be aware that additional change is likely as a natural consequence of further individual company analysis, development and testing, especially inter-agency testing. As organizations continue to perform testing of their implementations of CRC, both internally and with trading partners, it is a certainty that some updates to the standard will be required. This is particularly true of testing of the change process that represents a completely new “results-oriented” methodology.

The Origination Standards Advisory Team is reviewing issues and requests for clarifications as they are received and will approve a change to the standard only if absolutely necessary, meaning, only if the process will not work as it is currently specified. The team will not approve changes that are only functional enhancements until after the initial, industry implementation of the standard. The team also provides a digest of the changes so that they are very apparent to analysts and developers. You may submit these requests online at: http://www.nchelp.org/issues/issuelog_edit.cfm

The Electronic Standards Committee (ESC) is looking at organizing a community beta test effort so that specific organizations that are moving forward as early implementers can more proactively test together in a very organized fashion and perform an early detection of as many items as possible that might result in updates to the standard. The details of this testing effort are currently being finalized.

Be assured that the ESC membership remains fully committed to implementation of the CRC standard and is working to that end. We have also had the same assurance from the Department of Education that it is committed to the XML-based COD standards and additional XML implementations. This commitment should send a strong message to the service providers and FAMS vendors that requested the FFEL community to pursue CRC that their request is moving forward. The external and internal reasons that these organizations wanted CRC pursued are still valid. There are some very worthwhile improvements in the CRC standard that are very attractive to school financial aid directors; chief among them is an easier way to provide for change processing that would save schools from having to do the dual entry required of so many today. With these kinds of capabilities existing within the standard, the full implementation of CRC by
all organizations will provide many benefits to the school customers we serve.

As we all look forward to changes that are likely to result from HEA Reauthorization and perhaps other legislative actions it will benefit the entire FFEL community to aggressively implement CRC. We must work toward implementation of mandated changes by Reauthorization in a single version of CommonLine, the CRC standard.

We welcome your comments, advice, and participation in the move to CRC.

### ESC MEETING SCHEDULE FOR 2005

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<th>Date</th>
<th>Location</th>
<th>Hotel</th>
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<td>Apr 18-20, 2005</td>
<td>San Antonio, TX</td>
<td>Crowne Plaza San Antonio Riverwalk</td>
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<td>Doubletree Crystal City</td>
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### Who’s Meeting in San Antonio?

**Testing and Certification** will meet 8:30-3:00 Monday.
**Communications and Training** will meet 3:00-5:00 Monday
**Origination Standards** will meet 8:30-5:00 Tuesday.
**DACAT & Program Ops DACS** will meet 8:30-5:00 Monday and Tuesday.
**EEAT** will meet 8:30-5:00 Monday and Tuesday.
**The School Advisory Group** will meet 8:30-5:00 Tuesday.
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<th>Non-Business Members</th>
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**Notes:**
1. There is a one-time founding member 5% discount on memberships paid for by (date).
2. All members have rights of full participation in EAP activities. However, only Full Members gain voting rights on EAP issues and rules.
3. A given member's membership year begins in the month in which EAP receives commitment to join.
4. "Non-business" includes trade and professional associations, government agencies, and other non-profit groups.