

## 2012 Innovation Summit Program

### Pre-Summit Events – Wednesday, November 28

#### Accelerating Excellence

#### AdvancED System Accreditation Workshop

Half day workshop 8:30 – 11:30



Jerry Cooper, Associate Director, AdvancED Kentucky

This session is offered for systems seeking initial or continuing accreditation in 2013-14 school year using the 2012 AdvancED accreditation standards and indicators, updated protocol and on-line tools in ASSIST. This session will review the new AdvancED Accreditation Protocol and Standards for school systems having a 2013-2014 External Review Team Review.

Training highlights includes the following:

- An Overview of AdvancED Protocol and new standards for school systems
- External Review requirements and schedule (what's expected of school systems)
- How to access and complete the Self- Assessment (SA), Executive Summary (ES), and assurances for districts
- Diagnostics tools in ASSIST for school systems
- Student performance data for school systems
- Hands-On training with AdvancED's new school Improvement web-based platform, the AdvancED Adaptive System of School Improvement Support Tools (ASSIST™)
- Review of the 3 components of the accreditation decision: Organizational Performance, Student Performance, and Stakeholder Perceptions.

#### Accelerating Excellence

#### AdvancED School Accreditation Workshop

Half day workshop 1:00 – 4:00



Jerry Cooper, Associate Director, AdvancED Kentucky

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- Diagnostic tools in ASSIST
- Student performance data for schools
- Hands-on training with AdvancED's web-based platform, the AdvancED Adaptive System of School Improvement Support Tools (ASSIST™)
- Review of the 3 components of the accreditation decision: Organizational Performance, Student Performance, and Stakeholder Perceptions



## **Kentucky Department of Education & AdvancED Guided Work Sessions**

### **School Improvement Planning**

Half day workshop 8:30 – 11:30

Susan Allred, Associate Commissioner, Kentucky Department of Education  
Misty Cato, Director, Customer Services, AdvancED  
Michael Todd, Director of School Improvement, AdvancED

This workshop is intended for school leaders who are ready to finalize their improvement plans including goals, strategies and activities for 2012. The workshop will also focus on:

- a. Using the ASSIST improvement planning tools
- b. KDE guidance in setting improvement goals and identifying effective strategies
- c. Alignment to Kentucky strategic priorities
- d. Planning process overview
- e. Implementation, management and evaluation of effectiveness

Participants should plan on bringing a draft copy of their improvement plan to the workshop

Susan Allred, Associate Commissioner, Kentucky Department of Education  
Misty Cato, Director, Customer Services, AdvancED  
Michael Todd, Director of School Improvement, AdvancED

## **District Improvement Planning**

Half day workshop 1:00 – 4:00

Susan Allred, Associate Commissioner, Kentucky Department of Education

Misty Cato, Director, Customer Services, AdvancED

Michael Todd, Director of School Improvement, AdvancED

This workshop is intended for system leaders who want additional feedback, guidance and support on the creation of their 2012-13 district improvement plans. The workshop will also focus on:

1. Utilizing the diagnostic tools in ASSIST to determine needs
2. Utilizing tools in ASSIST to create, manage and evaluate impact of improvement initiatives
3. Creation of goals as well as best practice strategies and activities
4. Monitor improvement planning initiatives in schools within the system

Participants should plan on bringing a draft copy of their improvement plan to the workshop

## **Culturing Schools for Meaningful School-Family-Community Partnerships**

Half day workshop

Workshop #1 8:30 – 11:30

Workshop #2 1:00 – 4:00



Wayne Lewis, UK College of Education, Department of Educational Leadership Studies

School-family-community partnerships entail much more than bake sales, and their usefulness goes far beyond engendering the good-will of parents and community members. Research shows that meaningful school-family-community partnerships impact student learning, student behavior, and the culture and climate of schools. In this four hour workshop, school leaders will examine research related to creating and sustaining meaningful school-family-community partnerships, and explore the process of culturing and structuring schools for collaboration with stakeholders. A panel of Kentucky school leaders will share strategies for successfully engaging families and community partners. Before leaving the session leaders will begin to develop plans for creating school-family-community partnerships in their schools and districts.

## **UK Design Thinking**

Full day workshop 8:30 – 4:30

John Nash, Director of dLab, and Assistant Professor of Educational Leadership,  
University of Kentucky

Dan Gilbert, Founder of Learning Innovations, Inc

Steve Wyatt, Dean, College of Public Health

Melody Noland, UK College of Education, Department of Kinesiology and Health Promotions

Deborah Harley, Professor, UK College of Education, Department of Early Childhood Special Education &  
Rehabilitation Counseling

Melinda Ickes, Assistant Professor, Department of Kinesiology and Health Promotions

Design thinking is an approach to understanding problems and creating solutions using extreme innovation and collaboration. This full-day workshop will education you on the principles of design thinking in a hands-on, collaborative and fun environment. No experience required! We'll teach you all about this powerful approach. Once you know the basics you'll put the principles into action in this session by tackling a real-world challenge. Take away-skills include: (1) the basics of innovative problem-solving; (2) discovering unmet needs and opportunities in work and world; (3) use of the structures and tools to be more effective in innovation; and (4) design innovative solutions that have real meaning and meet real needs.

## **STEM Education in the Context of Kentucky Core Academic Standards (By Invitation Only)**

Half day workshop 1:00-4:30 pm

Gina Foletta, Interim Executive Director, Kentucky Center for Mathematics

Sean Elkins, Science Consultant, Kentucky Department of Education

Melinda Curless, STEM Consultant, Kentucky Department of Education

Participants of this session can expect to learn the development process, structure, and vision of the Next Generation Science Standards (NGSS), with particular emphasis on integration with Common Core State Standards in mathematics and English/Language Arts. A major theme of Kentucky Core Academic Standards as required by Senate Bill 1 is focus on academic *practices* as the means by which our students access and make meaning of disciplinary content; this session will shed insight into implications for disciplinary integration through the lens of academic practices,, Participants will compare the structure of the NGSS to Kentucky's current science standards in order to identify instructional implications and opportunities for STEM integration. The next public draft of NGSS is expected in early December. Participants will learn how to give feedback and participate in the development of NGSS.



## **Thursday, November 29**

### **8:30 – 10:15 First General Session**

Mary John O’Hair, Dean, UK College of Education, Presiding  
Eli Edwards, UK Student Senator, Co-Presiding

#### Special Guests:

University of Kentucky Wildcat Marching Band  
Michael Tick, Dean, University of Kentucky College of Fine Arts

#### Speakers:

Eli Capilouto, President, University of Kentucky  
Gene Wilhoit, Executive Director, Council of Chief State School Officers  
Kris Kimel, President, Kentucky Science and Technology Corporation

#### Panel Facilitator:

Dan O’Hair, Dean, College of Communications and Information Sciences, University of Kentucky

#### Panelists:

Elaine Farris, Superintendent, Clark County Schools  
Buddy Berry, Superintendent, Eminence Independent Schools  
Kristen Craft, Executive, Thinksis.com  
Bob Quick, President, CommerceLexington

Mary John O’Hair, “Celebrating Innovation: Special Announcement”

### **10:30 – 11:30 Concurrent Sessions I**

#### **1. “What’s Time Got to Do With It?”**

Pat Trotter, Division of Innovation and Partner Engagement, Kentucky Department of Education

A panel made up of enlightened stakeholders representing teachers, leaders, government officials, school boards, site-based council members, and legislators will address this question and share innovative thinking and planning efforts underway to tackle issues of time and credit-based systems for credentialing learning.

#### **2. “Preparing for Implementation of Next Generation Science Standards in P20 Instruction”**

#### **Presenters:**

Kim Zeidler-Watters- Director of P-12 PIMSER Math & Science Outreach, University of Kentucky  
Melinda Curless, KDE STEM Consultant  
Felicia Rohr, PIMSER Regional Teacher-Partner

What can K-12 schools and science teachers begin to do now to prepare for the release and effective implementation of the Next Generation Science Standards (NGSS)? This session will provide an overview of the Framework being used to create the Next Generation Science Standards (NGSS). Presenters will focus much on the session on the core idea of engineering design. Participants will also have an opportunity to see how connections have been intentionally included to the Common Core State Standards (CCSS). Presenters will share a specific curriculum task example that creates an image of the alignment between NGSS and CCSS and what that might look as it plays out in science classrooms.

**3. “More than Just An Interesting Conversation: Innovation That Is Impacting Students, Classrooms and Learning in Danville Independent”**

**Presenters:**

Carmen Coleman, Superintendent, Danville Independent

**Panel:**

Board member(s)  
School/system leaders  
Students

This presentation will feature Danville Independent’s initiatives to create a more student-centric school system through the successful implementation of project-based learning, competency-based programs, and other student-directed learning at the middle and high school levels. The presenters and panelists will share their experiences in building board, community and perhaps most importantly, student support for a redesigned system for learning and a clearly defined diploma focused on not only college and career readiness, but college and career success.

**4. “Learning Progressions: Deeping Student Understandings”**

Linda Pittenger, Innovation Lab Network Director, Council of Chief State School Officers  
Gerrita Postlewait, CCSSO National Consultant

A collaborative research partnership has been formed to study inferences or hypotheses about how students’ understanding and skill in a subject develop and become more sophisticated over time in response to instruction. Working in 18 elementary or middle school sites in six CCSSO states-led Innovation Lab network, The Consortium for Policy Research in Education (CPRE) based at Teachers College at Columbia University is serving as the “hub” for this research, in collaboration with CCSSO, Vermont Mathematics Partnership, and ETS’ Cognitive Based Assessment of, for, and as Learning Initiatives in both ELA and math.

**11:30 – 12:30 Lunch on your own in downtown Lexington**

**12:45 -1:45 Concurrent Sessions II**

**1. “ Better Ideas, Better Solutions: How We Took On Tough Educational Challenges and Solved Them”**

Presenter:

John Nash, Associate Professor, Educational Leadership, Director of dLab, University of Kentucky College of Education

What is the effect of design thinking? Does it work? In this session a team from the Laboratory on Design Thinking in Education (dLab) at UK will describe how young adults learned to take on challenging, messy problems that educators and administrators face every day and develop creative, surprising and “workable” solutions that can have lasting impact.

**2. “Grading Practices and Policies: Creating grading policies and practices that focus on improved performance and elimination or reduction of inequities in grading”**

Presenter:

Gerry Swan, Assistant Professor, Instructional Technology and STEM Education and Co-Director of P20 Design Learning Lab, University of Kentucky College of Education

Panelists:

Janet Granada, Principal, East Jessamine High School

Thomas R. Guskey, Professor of Education, School Counseling Psychology and Co-Director of P20 Assessment and Accountability Lab, University of Kentucky College of Education

Thomas E. Jones, Director, AdvancED Kentucky

To meet the challenge of preparing all students for college, career and citizenship, a strong bridge must be built between the current grading and evaluation system which has been in place for over 100 years to a new system that clearly credentials learning and paves the way for success after high school.

**3. “Innovations in Kentucky Mathematics Education”**

Presenters:

Gina Foletta, Interim Executive Director, Kentucky Center for Math, Northern Kentucky University  
Alice Gabbard, Kentucky Center for Math, NKU  
Venus Wong, UK doctoral student

The Kentucky Core Academic Standards for mathematics have been adopted and implemented in Kentucky for two years. The Kentucky Center for mathematics was established by Kentucky Legislation to provide a variety of learning experiences and resources. This session will focus on the latest innovations in systemic problem solving for the improvement of mathematics education across Kentucky. Effective strategies for integrating common core literacy standards into mathematics instruction P20 will be discussed. The participants will also join in a discussion about the impact of the proposed science standards on mathematics education.

**4. “Knowledge-Driven Improvement: Guidance for Using New Diagnostic and Management Tools in ASSIST for School and System Improvement Planning”**

Presenters:

Susan Allred, Associate Commissioner, Kentucky Department of Education  
Misty Cato, Project Manager , AdvancED Client Services

ASSIST (Adaptive System of School Improvement Support Tools), which is now available to all Kentucky schools and systems, is an on-line platform to create, manage and monitor school/system improvement plans. ASSIST also comes with a suite of diagnostic tools to help ensure improvement planning is accurately targeting school/system needs. This session will provide guidance on the use of ASSIST for diagnostic analysis, creation of improvement goals, strategies and activities, and managing plan implementation and impact.

**1:45 – 2:45      Concurrent Sessions III**

**1. “Toyota Project: Lesson Study Project: Learning Innovations to Motivate Young Math and Science Whizzes and Biology Realignment and Curriculum Enhancement Or B.R.A.C.E. at the Trace” - Biology Realignment and Curriculum Enhancement at Locust Trace AgriScience Farm”**

**Presenters:**

Newport Independent Teachers

Diane Hatfield, District Curriculum Coordinator  
Brian Streight, Newport HS Math Teacher  
Tommy Thompson, Newport MS Science Teacher

Fayette County

David Helm, Secondary Science Coordinator  
Heidi Anderson, Fayette County Teacher

Barbara Shumaker, PIMSER UK

Eugenia Toma, Professor, UK Martin School

Two school districts (Newport Independent and Fayette County Locust Trace) will present information on their projects. The Newport Independent Project formed a partnership between Newport Middle and Newport High Schools and faculty members from Northern Kentucky University's Math and Chemistry Departments. Central to the project's design all middle and high school math and science teachers participate in Professional Learning Communities and job-embedded professional development. Using a "lesson study" approach, teachers develop inquiry based, hands-on lessons utilizing Lab Quest technologies and focus on problem solving. The Fayette County Public Schools district professional development plan for the Toyota USA Foundation Partnership Enhancement Project (PEP) focused upon developing Biology teachers' knowledge and skills and increasing student achievement in Biology. They will share the strategies of working collaboratively with postsecondary faculty to align the KY Program of Studies Life Science and Related standards with the new ACT Quality Core standards, increasing the use of technology in instruction, and integrating the new literacy standards specific to core content into the curriculum.

## **2. "The Evolution of Innovation"**

**Presenter:** David Cook, Director of Partner Engagement and Innovation, Kentucky Department of Education

This presentation will focus on the ongoing efforts of the Kentucky Department of Education to provide new frameworks and support for innovation in all Kentucky schools and districts. In particular the session will provide an overview of the development of the "Districts of Innovation" legislation passed by the Kentucky Legislature in 2012 and new regulation recently adopted by the Kentucky Board of Education. The session is intended to further define implementation of the law and provide an overview of the new regulations with particular attention to innovation in funding, seat time and calendar, use of technology, assessment, changing roles of educators among others. Participants will be provided guidance for the creation of their own "District of Innovation" proposals, and examine some innovation proposals under development.

## **3. "Kentucky Program Reviews 2.0: What do I need to know about the changes to Kentucky's Program Review process for 2013?"**

Presenters:

Robert E. Duncan, Arts and Humanities Consultant, Kentucky Department of Education  
Misty Cato, Project Manager , AdvancED Client Services

This session will review the new content and revised reporting framework for Kentucky's Program Reviews that will begin in Winter, 2013. Particular attention will be given to the addition of Early Elementary Program Reviews this year.

## **4. "Surprise and Delight: Using Technology to Facilitate Learning"**

Presenters:

Buddy Berry, Superintendent, Eminence Independent Schools

Brook Berry, Elementary Student, Eminence Independent Schools

If technology is a lever to redefine teaching and learning, engaged students will be the tipping point to encourage leaders to move forward with innovative ways to put devices in their hands and give voice to the future of learning. Attend this session to hear first-hand from a student who is doing just that.

#### **5. “Preparing Global Citizens for 21<sup>st</sup> Century Living – What is the role of schools P20?”**

Presenters:

Sharon Brennan, Associate Professor and Director, Office of Field Experiences & School Collaboration, Associate Director of International Engagement

Parker Fawson, Associate Dean for International Engagement, Chairperson, Department of Curriculum & Instruction

Huajing Maske, Director, Confucius Institute, University of Kentucky

Kathryn Norman, Doctoral Student and Graduate Assistant, Office for International Engagement, University of Kentucky

Nicole Jennings, Resource Specialist, English as a Second Language Office, Fayette County Public Schools

This session will focus on exploring ways school and university partners can develop innovative approaches to prepare students for living in what is clearly a global era. Participants will engage in activities to address three broad questions: 1) What does it mean to be a global citizen and why is it an important goal? 2) How can schools help students demonstrate both global competence and high level competence on mandated performance assessments? And 3) How can schools and universities best collaborate to help students achieve these goals?

## **2:45 –4:30 Innovation Festival**

### **Poster Sessions:**

#### **Poster Session 1: “Using the K-12 Classroom to Foster Physical Activity and Positive Academic Performance”**

Aaron Beighle, Associate Professor, University of Kentucky

Heather Erwin, Associate Professor, University of Kentucky

Physical activity not only provides health benefits for students, but it is associated with positive academic outcomes as well. As high-stakes accountability increases, physical activity time is being cut from several schools despite the findings that incorporating movement in the classroom setting is an effective means for rejuvenating students and redirecting their learning. This session will provide background information on effects of incorporating physical activity in the classroom as well as present effective methods for implementing movement in small spaces.

### **Poster Session 2: “Diversity Project: Harnessing the Internet to Build an Inclusive Community”**

Emily Duncan, Health Insurance Coordinator, University Health Service, University of Kentucky

Eric T. Morrow, Program Coordinator, Bioethics, University of Kentucky

Reactive diversity training has limited dialogue by focusing on a small number of characteristics, thereby narrowing the responsibility and effectively transforming “diversity” into a dirty word. The “I am...” Diversity Project brings a novel, proactive approach that engages everyone—both people of privilege and people of oppression—by acknowledging not only the traditional characteristics but all aspects of identity, diversity, inclusion, and community. When we understand our identity spectrum makes us all a part of diversity, we have a greater chance of finding common ground and creating an inclusive community in which we all can thrive.

### **Poster Session 3: “Study Abroad: How it Enhances Your Educational Career”**

Jeannette Groth, Lecturer, Office for International Engagement, UK

Kathryn Norman, Graduate Assistant, Office for International Engagement, UK

This poster presentation will focus on exploring ways P20 educators and students at all levels can improve their teaching/administration skills through global involvement. Opportunities for pre-service teachers, teacher engagement, and administrative participation in a variety of settings will be represented and materials will be provided.

### **Poster Session 4: “Enhancing Instructional Leadership Through Collaborative Coaching K-12”**

Gary Houchens, Associate Professor, Dept of Educational Administration, Leadership & Research, Western Kentucky University

Tom Stewart, Assistant Professor, Dept of Teaching and Learning, Austin Peay State University

Presentation will describe the second phase of a two-year study in one Kentucky school district using a collaborative coaching model based on theories of practice to assist principals in enhancing their instructional leadership. Results indicate the participating principals found the coaching protocol valuable in helping them reflect more deeply on their leadership practices and enhancing their professional effectiveness.

### **Poster Session 5: “KY Early Childhood Data System (KEDS): Program Improvement Based on Data Analysis”**

Beth Rous, Professor, Educational Leadership, University of Kentucky

Caroline Gooden, Co-Principal Investigator, KY Early Childhood Data Systems

Kim Hooks, Co-Principal Investigator, KY Early Childhood Data Systems

This poster will present a summary of the last two years of the KY Early Childhood Data Systems (KEDS) data, including best practice for assessment, progress monitoring, and program improvement based on data-based decision-making.

**Poster Session 6: “GSKyTeach: A Teacher Residency Program”**

Melissa Rudloff, Master Teacher, WKU SkyTeach

Shelby Overstreet, SKyTeach Pre-service Teacher (Chemistry), WKU

In partnership with the Jefferson County Public Schools in Louisville, Kentucky and Western Kentucky University’s Ogden College of Science and Engineering, the WKU College of Education and Behavioral Sciences has established a teacher residency program, call GSKyTeach, to prepare and place new math and science teachers in high-need high schools. Teacher residents from across the nation who have high levels of preparation in the sciences or math—but none in teaching—are recruited, prepared, and placed in JCPS high-need schools. The program has currently trained 31 teacher residents. GSKyTeach is inquiry based innovative program and supported by the National Research Council’s studies on teaching and learning. In this unique, innovative program, teacher resident candidates experience carefully planned clinical experiences working alongside an experienced high-performing mentor teacher to develop strong teaching skills. Learning to teach is also facilitated by master teachers modeling expert inquiry based teaching and learning.

**Poster Session 7: “A New Framework and Approach to Engage a Learning Community of P-20 in the Field of Music”**

David W. Sogin, Professor of Music Education, University of Kentucky

D. Gregory Springer, Doctoral Candidate in Music Education, University of Kentucky

New Horizons is a music program for those adults who are 50 and older and provide an entry point or re-entry point into making music. This program’s instructional assistance is supported through the Music Education program at the University of Kentucky with current undergraduate students, graduate students, and former students now teaching in K-12 and in higher education. The major themes explored for this poster include perceived effective instructional strategies and perceived ineffective strategies by both instructors and musicians. Data collected for this presentation was through face-to-face interviews and phone interviews of both instructors and adult musicians.

**Poster Session 8: “Highly Effective K-12 Math Leadership Initiatives”**

Jo Swanson, Assistant Superintendent of Teaching and Learning, Henderson County Schools

Dana Guess-Chumbler, District Math Coordinator, Henderson County Schools

This poster session will focus on sharing how a professional learning community (PLC) can be established and utilized with math teachers within a district. This PLC can be utilized for peer reviewing lesson plans, developing a networking ladder for professional development; and establishing district math goals with teacher participation. Presenters will share with the audience and invite participation in effective district initiatives that impact student success in math. Learn how to develop and implement an ongoing, sustained PD delivered through a networking ladder of hierarchy for leadership and to utilized a collaborative, weekly math team planning and peer lesson review.

## **Roundtable Discussions:**

### **Round Table 1: “ALEKS in the K-12 Classroom”**

Audrey Brackett, Teacher, Bate Middle School, Danville Independent District  
Forrest Smith, Representative, Academic Edge

This discussion will introduce participants to an innovative online math program with proven results for increasing student achievement. Participants will gain insight into how ALEKS can be implemented within the classroom setting to help raise achievement levels for all students with greater success in mathematics.

### **Round Table 2: “Enhanced Anchored Instruction (EAI): Improving Math skills of Middle School Students”**

Mark D. Butler, Graduate Assistant and Doctoral Student, University of Kentucky  
Ann Katherine Griffen, Graduate Assistant and Doctoral Student, University of Kentucky  
Samuel Y. Choo, Graduate Assistant and Doctoral Student, University of Kentucky

The purpose of this roundtable discussion is to report the findings from a Goal 3 Institute of Education Sciences (Cognition and Student Learning) study that examined the efficacy of Enhanced Anchored Instruction (EAI) for improving the fraction computation and problem solving skills of middle school students in 34 resource classrooms across the state of Kentucky. Achievement of students in EAI classrooms was compared to that of students in 32 Business-As-Usual (BAU) classrooms. Results showed improvement in fraction computation and problem solving performance for EAI classes over those in BBAU condition. Implementation and finds will be shared.

### **Round Table 3. “ Performance-Based Education: Individualized Instruction with Zero Dropouts”**

Roger D. Cook, Superintendent, Taylor County Schools  
Susan Kilby, Assistant Superintendent, Taylor County Schools  
Troy Benningfield, Instructional Supervisor, Taylor County Schools

Taylor County has restructured its focus from a one-size-fits-all program of studies to an individualized system accelerating students not on chronological age, but on academic ability. The school community

has worked collaboratively to move the district from tier consequences to one of only 22 districts in the Bluegrass that met AYP in 2010-11. With zero dropouts the last three years, scores show continued gap reduction: 1) 2012 ACT composite of 19.4 is among the highest in our region; and 2) five-year trend data shows an increase in students scoring proficient/distinguished-28.5% math, 23.25% social studies, 15.05% reading, and 10.77% science.

#### **Round Table 4. “Inclusive and Innovative Approaches to Supporting P20 Students”**

Karin Ann Lewis, Assistance Provost for Undergraduate Education & Director of Department of Academic Enhancement, University of Kentucky  
James Breslin, Associate Director of Department of Academic Enhancement, UK

Demographics reflect increasing numbers of underrepresented populations are accessing higher education. While social justice advocates, educators, and politicians rightly welcome such diversity, higher education continues to struggle with how best to support students. Traditionally subpopulations of students have been identified based on cultural constructs. Resources are then focused on programming for targeted subpopulations that are considered at-risk. Although well intentioned, the prevailing reactive trend is to create programs, initiatives, units, or departments to serve each subpopulation separately. This practice remains problematic on many levels. This round table will focus on peer to peer, inclusive, innovative approaches to supporting all students.

#### **Round Table 5 “Kentucky Virtual Campus: New Directions for K-12 Virtual Learning in the Commonwealth”**

Phillip Napier, Barren County Schools  
Lynda Thomas, Distance Learning Director KET  
Artie Dietz, Jefferson County Schools

Beginning this school year, the Kentucky Department of Education is partnering with three virtual learning providers. In this roundtable discussion, learn how each provider works, what they offer, and what makes each provider unique. Representatives will share data on their effectiveness and how they are able to address individual learning styles of students throughout the Commonwealth, especially those who need learning experiences they would not be able to get from their own school.

#### **Round Table 6: “Aerospace, The Final Frontier: A Collaboration Between the Kentucky Institute for Aerospace Education and Colleges/Universities to Improve STEM Learning and Create Career Pathways”**

William T. Smith, Executive Director and CEO, Kentucky Institute for Aerospace Education

In this session, Dr. Tim Smith will provide a short history of the Institute and its mission. He will describe the KIAE’s aerospace program of study, the plan to increase attainment of all students and those under-represented in aerospace careers, and discuss how students can earn college credit in flight/aeronautics,

aeronautical engineering, space system engineering, aviation management/operations, and aviation maintenance.

**Round Table 7: “Implementing An Effective Teacher Support Network to Build Teacher Leaders”**

Kelly Stidham, Instructional Coach, Boone County Public Schools  
Chris Crouch, Instructional Coach, Boone County Public Schools

As schools across the state implement the Teacher Effectiveness Framework, the need for providing deeper, more meaningful support to teachers and building leaders is essential. During this discussion, we will frame the elusiveness of teacher effectiveness and discuss a framework for maximizing the resources available to teachers and engineering reflective conversations that lead to greater teacher effectiveness.

**Round Table 8: “More Than an Acronym: An Authentic Approach to STEM in the Middle School Classroom”**

Scott Townsend, Associate Professor of Science Education, Eastern Kentucky University  
Jason Fair, Middle School Science Teacher, Farristown Middle School, Madison County Schools  
Jeffrey R. Peake, Doctoral Student—STEM Education, University of Kentucky

This presentation will focus on a synergistic approach to project-based learning that integrates all aspects of STEM education. Using the pedagogical framework of the Conceptual Understanding Triangle sequence (macroscopic—modeling—symbolic), the presenters will share their alternative approach for teaching STEM in the science classroom. This approach allowed the development and understanding and implementation of a STEM-based project in the context of the designing and understanding major concepts of energy through the engineering processes of roller coaster construction. The students were able to make connections between the science, technological, and mathematical components of roller coaster engineering.

**ROUND TABLE 9: “STEM and Our Environment, Empowering Students to Action”**

Tresine Logsdon, Energy & Sustainability Curriculum Coordinator, Fayette County Schools  
Maggie Smith/Lucie Williams, Student Teacher, KTIP Resource Teacher, Cassidy Elementary/Lafayette High School- Fayette County Public Schools

STEM and Our Environment- in partnership with UK College of Education, Fayette County Public Schools implements STEM and Our Environment as part of E=USE2 (Education leads to Understanding Sustainability, Energy and the Environment), an 8-step student and project-driven program to improve sustainability in our schools. For STEM and Our Environment, UK MIC and Practicum students partner with our E=USE2 student teams to interpret and graph student-collected data, analyze school consumption data and navigate Green TouchScreen software for Locust Trace Agriscience Farm.

**3:30 – 4:30 “The Finland Phenomenon: Inside the World’s Most Surprising School System”  
(Video Documentary)**

Facilitators:

Sharon Brennan, University of Kentucky College of Education

Eve Proffitt, UK College of Education P20 Innovation Lab

Linda France, UK College of Education P20 Innovation Lab

Finland’s education system has consistently ranked among the best in the world for more than a decade. The puzzle is, why Finland? Documentary filmmaker, Bob Compton, along with Harvard researcher, Dr. Tony Wagner, decided to find out. The result of their research is captured in this film, “**The Finland Phenomenon: Inside the World’s Most Surprising School System.**” In the 60-minute film, Dr Wagner guides the viewer through an inside look at the world’s finest education system. A life-long educator and author of the best-selling book “**The Global Achievement Gap,**” Dr. Wagner is uniquely qualified to explore and explain Finland’s success. From within classrooms and through interviews with students, teachers, parents, administrators and government officials, Dr. Wagner reveals the surprising factors accounting for Finland’s rank as the #1 education system in the world.

**Friday, November 30**

**8:15 – 10:00 Second General Session**

Tom Shelton, Superintendent, Fayette County Schools, Presiding

Special Guests:

University of Kentucky Acoustikats

Skip Gray, Director, University of Kentucky School of Music

Featured Speaker: Tony Wagner, Author of *Global Achievement Gap* and *Creating Innovators: The Making of Young People Who Will Change the World*

Facilitator: Mark Elgart, President & CEO AdvancED

Panelists:

Tom Shelton, Superintendent, Fayette County Schools

Herb Miller, President, Columbia Gas of Kentucky

Rosz Akins, Founder, Carter G. Woodson Academy

Ron Townsend, Executive Vice-President, Battelle Global Laboratory Operations

**10:00-10:15 BREAK**

**10:20-11:30 Third General Session**

Mary John O’Hair, Dean, University of Kentucky College of Education, Presiding  
Blake Hazelton, Dean, University of Louisville College of Education, Co-Presiding

Featured Speakers:

Eric Fingerhut, Corporate Vice President of Battelle's Education and STEM Learning  
Ron Townsend, Executive Vice President of Global Laboratory Operations

Kentucky STEMx LAUNCH: Networking and Global Innovation

STEMx connects state networks and partners to accelerate the growth of policies, practices and partnerships that are needed to expand the number of STEM teachers, increase student achievement in STEM education, and grow tomorrow’s innovators. The new STEMx Kentucky network is dedicated to transforming STEM (science, technology, engineering, and math) education in Kentucky and providing P-12 and higher education students with the critical thinking skills to productively join the STEM workforce. This session will celebrate the launch of a Kentucky STEMx Network. The panel will address the needs for a STEMx Network in Kentucky, share initiatives in place such as BEAM, Project Lead the Way, and Kentucky Advance, as well as interact with the audience for input and ideas on issues such as: 1) what is a good definition of STEM, 2) what should be the outcomes/goals for a Kentucky STEMx Network, 3) What resources will it take? And 4) what organizational structure will assist in implementing the network. Battelle Foundation representatives, Ron Townsend and Eric Fingerhut, will share what other states do and provide insight into the Battelle STEMx National Network.

Panel Discussion

Panelists

Lee Todd, Former President, University of Kentucky  
Paul Rooke, CEO, LexMark International  
Felicia Cummins-Smith, Associate Commissioner, Kentucky Department of Education  
Dianne Leveridge, Director, Project Lead the Way  
David Royster, Director PIMSER  
Mary Pat Regan, CEO & President, AT&T  
Angela Leonhard, Toyota Manufacturing

**11:30 – 12:30 Lunch on your own in downtown Lexington**

**12:45-1:45 Learning Innovation Zones – Round Table Discussions**

Leaders across Kentucky who have participated in the Next Generation Leadership Academy have committed to developing Learning Innovation Zones in schools and districts to prototype next generation learning. Leaders in 11 districts will share their plans, lessons learned, and next steps in round table discussions designed to be interactive and informative. Participating districts are: Fayette County, Barren County, Kenton County, Williamstown Independent, Eminence Independent, Knox County, Trigg County, Boone County, Jessamine County, Graves County, and Scott County.

**1:45-2:00 Break**

**2:00 – 3:15 Fourth General Session**

Mary John O’Hair, Dean, UK College of Education, Presiding

Selections from “Phantom of the Opera”  
University of Kentucky School of Music

Special Guest:  
Everett McCorvey, University of Kentucky School of Music

Facilitator:  
Gene Wilhoit, Council of Chief State School Officers

**“Learning Innovation Zones—Creating Disruptions in Out-Dated Systems”**

Panel discussion

Dan O’Hair, Dean UK College of Information Studies and Communications  
Gene Wilhoit, Executive Director, Council of Chief State School Officers  
Lu Young, Superintendent, Jessamine County Schools  
Carmen Coleman, Superintendent, Danville Independent Schools  
David Cook, Director of Innovation and Partner Engagement, KDE  
Lynda Thomas, Executive Producer, Kentucky Educational Television  
John Rousch, President, Centre College  
Lyle D. Roelofs, President, Berea College