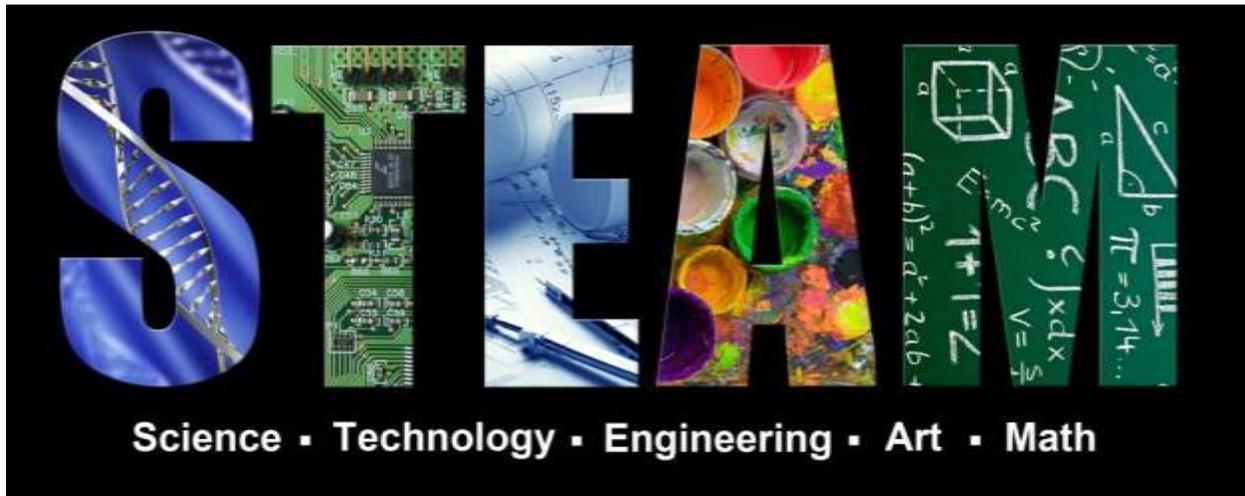


ARCHS' SPRING 2014 INSTITUTE

Science, Technology, Engineering, Arts, & Math (STEAM) Institute for
Early Childhood and Youth Development Professionals



SATURDAY, APRIL 5, 2014

8 A.M. TO 3:30 P.M.

HARRIS-STOWE STATE UNIVERSITY

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Building Great Partnerships for the Greater Good of Greater St. Louis

WELCOME TO ARCHS' SPRING 2014 INSTITUTE

Dear Early Childhood & Youth Development Professionals,

Thank you for registering for our Institute. ARCHS has been hosting educational programs at Harris-Stowe State University since 2009. This spring, our focus is on science, technology, engineering, arts, and math, as STEAM becomes more and more mainstream in today's educational environment.

We are proud to host, as a great benefit to you and the youth you support, a fantastic lineup of leading edge STEAM experts from across the St. Louis region.



We are excited to welcome new organizations this spring, in addition to our returning presenters. Please take advantage of the expertise from the likes of Education Plus, Box Cars & One Eyed Jacks, Gateway Greening, The Magic House, Quirkles, Saint Louis Science Center, University of Missouri 4-H Robotics, and many more.

Our Institute is designed to offer ways to learn from area educational leaders, as well as from each other. We look forward to seeing you on April 5.

Sincerely,

A handwritten signature in black ink that reads "Wendell E. Kimbrough".

Wendell E. Kimbrough
ARCHS' Chief Executive Officer

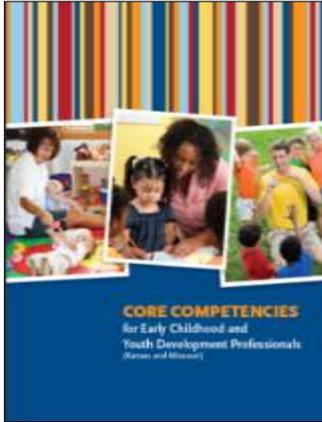
ARCHS' FEATURED PRESENTERS



University of Missouri
4-H Robotics

KS/MO CORE COMPETENCY CONTENT AREAS

ARCHS' Spring 2014 Institute for Early Childhood and Youth Development Professionals features learning sessions aligned to the:



Kansas and Missouri Core Competencies for Early Childhood and Youth Development Professionals

Content Area I:	Child Growth and Development
Content Area II:	Learning Environment and Curriculum
Content Area III:	Child Observation and Assessment
Content Area IV:	Families and Communities
Content Area V:	Health, Safety, and Nutrition
Content Area VI:	Interactions with Children
Content Area VII:	Program Planning and Development
Content Area VIII:	Professional Development and Leadership

For an electronic copy of the Kansas and Missouri Core Competencies booklet visit:
<https://www.openinitiative.org/content/pdfs/CoreCompetencies/CoreComp2011.pdf>



ARCHS' SPRING 2014 INSTITUTE SCHEDULE

Room	8:00 a.m. Session One
204	<p style="text-align: center;">Creating STEAM with Digital Media Stephanie Madlinger, EducationPlus</p> <p>Description: In this workshop you will discover free digital media resources available to parents, teachers, and students. Learn how to effectively use digital learning assets like WebMath, Young Scientist Challenge, The Ready Zone, and Free Homework Help. Leave with a full toolbox to tap into tomorrow. KS/MO Core Competency Content Areas: 2.1.2b, 7.1.2b</p>
211	<p style="text-align: center;">Sensory Exploration Materials: Playdough, Goop, and More Holly Aslin, St. Louis Community College-Florissant Valley</p> <p>Description: Come to this hands-on session and learn the importance of sensory exploration materials in the classroom for young children. You'll make several "mixtures" and will receive recipes for all of the creative dough experiences shared in the class plus more to make on your own! KS/MO Core Competency Content Areas: 2.1.1b, 2.5.1c</p>
212	<p style="text-align: center;">Ready, Set, Grow! Ryan Barker, Gateway Greening</p> <p>Description: This introductory course will give participants the skills needed to understand how to grow fresh produce in the St. Louis climate and how to get kids excited about participating in gardening. You will learn successful strategies for growing and harvesting food crops and integrating fun activities for children along the way. Handouts and seed packets will be provided to help encourage students to grow their own food. KS/MO Core Competency Content Areas: 2.1.2b, 2.6.2a</p>
213	<p style="text-align: center;">Adult, Child, and Infant CPR Rachel Moylan, ACS Accredited CPR Services</p> <p>Description: Topics covered include CPR and foreign body airway obstruction in adults/children/infants, rescue breathing, personal safety, and emergency response. All participants will practice and become proficient in hands on training with a manikin. KS/MO Core Competency Content Areas: 5.1.4b, 5.2.3a</p>

Room	8:00 a.m. Session One
214	<p style="text-align: center;">Basic Adult and Pediatric First Aid Gabriele Ayers, ACS Accredited CPR Services</p> <p>Description: Topics covered include personal safety, emergency response/assessment, bleeding control, caring for shock/heart attacks/strokes, burns, strains/sprains, dislocations/fractures, sudden illnesses, asthma, diabetes, seizures, severe allergic reactions, poisoning, heat/cold related emergencies, and head/neck, chest, abdominal, and minor injuries. KS/MO Core Competency Content Areas: 5.1.4b, 5.2.3a</p>
215	<p style="text-align: center;">Shuffling Into Math and Domino Math Games Stephanie Garcia, Box Cars and One-Eyed Jacks</p> <p>Description: Come prepared to play card, dice, and domino games that help your students achieve success in Common Core Math concepts. These games teach number sense, patterning, place value, operations, problem solving, and much more. Excellent ideas for game boards, centers, and backpacks. KS/MO Core Competency Content Areas: 2.1.3c, 2.6.3b</p>
216	<p style="text-align: center;">Integrating Music, Movement, and Art Into Daily Routines Sakinah Rauf and Christopher Thomas, Neighborhood Houses</p> <p>Description: No need to yell, shout or scream when you can say it with a song and do it with a dance! You don't have to be an art teacher to do art projects, and art is not just for art class! In this highly interactive two-part session, you will learn how to incorporate music and movement when transitioning children to and from meal times, restrooms, outdoors, when preparing for instruction, or when you just need to get their attention; and how to use everyday materials to create quick and easy projects to engage students of all ages. KS/MO Core Competency Content Areas: 2.4.1c, 6.1.2a</p>
217/218	<p style="text-align: center;">A Little Bit of Science Julie Tubbs, The Magic House</p> <p>Description: Join museum educators as they introduce hands-on activities that support the Missouri Early Learning Standards for Science. Early childhood educators will gather engaging teaching strategies and hands-on activities to spark the excitement of science discovery and exploration in the early childhood classroom. Session includes handouts and make-and-takes. KS/MO Core Competency Content Areas: 2.6.3b, 6.3.2a</p>

Vendor Displays/Attendance Prizes:

Please take a moment to visit the Institute's vendor display area in the Clay Center. Don't forget to turn in your raffle ticket. Attendance prizes are being awarded. Winners will be announced at lunchtime.

Room	10:15 a.m. Session Two
204	<p style="text-align: center;">Incorporating the Art of Theatre Into Your Education Tool Box Gary Bell, Stray Dog Theater</p> <p>Description: Learn how to integrate the dynamic aspects of theatre arts into your youth programs in order to promote total educational development. KS/MO Core Competency Content Areas: 2.3.3a, 2.5.1a</p>
211	<p style="text-align: center;">Brain Games, Playful Experiences with Mathematics Urlene Jackson Branch and Rochelle Andre, ARCHS</p> <p>Description: Mathematics is often considered a subject of right answers and prescriptive instruction; but, we must remember that children construct their own knowledge. Come explore engaging ways to foster preschoolers’ mathematical investigations. We will discuss appropriate mathematical concepts and creative ways to share these in the early childhood classroom. KS/MO Core Competency Content Areas: 1.1.1c, 6.3.2c</p>
212	<p style="text-align: center;">Easy Technology for Schoolyard STEAM Jennifer Hartly, Missouri Botanical Garden</p> <p>Description: Whether your facility provides you with rolling hills or a mostly paved play space, there are amazing websites, applications and technological tools available to you that can turn even the most weed-strewn space into a fascinating science exploration. This session will introduce some of our favorites – Budburst.org, Project Noah, and others – and explain how they might be used in STEM schoolyard projects. KS/MO Core Competency Content Areas: 6.3.1b, 7.1.2b</p>
213	<p style="text-align: center;">Adult, Child, and Infant CPR Rachel Moylan, ACS Accredited CPR Services</p> <p>Description: Topics covered include CPR and foreign body airway obstruction in adults/children/infants, rescue breathing, personal safety, and emergency response. All participants will practice and become proficient in hands on training with a manikin. KS/MO Core Competency Content Areas: 5.1.4b, 5.2.3a</p>
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Room	10:15 a.m. Session Two
215	<p style="text-align: center;">Hands-on & Digital Tools for Developing Early Number Sense Jan Keenoy and Ruth Block, EducationPlus</p> <p>Description: <i>This 2 part session will meet for one hour before lunch and one hour after lunch</i></p> <p>Part I - The Rekenrek is the Dutch term for a Number Rack that works magic in building concepts and procedures in early counting, subitizing, place value, and computation. Learn introductory and advanced lessons and activities that make a transformative difference in student math understanding. (Number racks provided for use at the workshop, with info on how to order or make your own, or link to the digital app version).</p> <p>Part II - Come learn about some free online resources for virtual manipulatives to use with PreK-12 children. Receive a free demo of embark12, an award-winning program that combines interactive online activities and games with hands-on activities.</p> <p>KS/MO Core Competency Content Areas: 2.1.3c, 2.1.2b</p>
216	<p style="text-align: center;">Cooking Matters! Education Opportunities for Kids and Teens Meriella Funk and Leslie Bertsch, Operation Food Search</p> <p>Description: Join us for a session of mock interactive nutrition activities and food samples as you learn about all of the culinary and nutritional education opportunities available through Operation Food Search.</p> <p>KS/MO Core Competency Content Areas: 5.5.1c, 5.5.3a</p>
217/218	<p style="text-align: center;">Paleo Pre-School/Simply Science Saint Louis Science Center</p> <p>Description: <i>This 2 part session will meet for one hour before lunch and one hour after lunch</i></p> <p>Part I - What makes a dinosaur a dinosaur? Did the Brontosaurus ever really exist? Do the books and movies from your childhood provide an accurate representation of dinosaurs according to current scientific research? Get activities to help Pre-K – 2nd grade students learn about different types of dinosaurs, piece together a dinosaur fossil and more.</p> <p>Part II - Learn how to use hands-on activities to help children build physical knowledge through “Simply Science” investigations. Learn activities that help children explore magnets, simple science tools, science inquiry, separation of colors and more.</p> <p>KS/MO Core Competency Content Areas: 1.1.1c, 2.1.2a</p>

Lunch at Bosley Residence Hall:

The designated 11:15 a.m. and 12:15 p.m. buffet lunches will be served in Harris-Stowe’s Bosley Residence Hall Cafeteria. ARCHS’ staff will be stationed in the registration area to help direct you.

Room	1:20 p.m. Session Three
204	<p style="text-align: center;">Online Learning & Collaboration Using Google Stephanie Madlinger, EducationPlus</p> <p>Description: In this workshop you will learn many ideas, strategies and activities to use for learning and collaboration. Come discover free programs, competitions, and apps that Google has to offer. The instructor is a Google Certified Teacher who will share rich resources with you to support your STEAM learning. KS/MO Core Competency Content Areas: 8.2.2a, 8.2.3c</p>
211	<p style="text-align: center;">Earth Tracks! Dianne Moran, Springboard</p> <p>Description: Nature within the realm of science is a logical and beautiful metaphor to the arts. A casual nature walk can fill our senses with infinite shapes, sounds and esthetic beauty. Many of our greatest artists have been influenced by the natural world, whether they are visual artists, dancers or musicians. Join our professional naturalist and living history performer as she shares her methods of integrating nature science into their teaching. Audience participation with live animals promises to draw participants into this lively session. KS/MO Core Competency Content Areas: 2.1.3a, 2.5.1b</p>
212	<p style="text-align: center;">Pre-School Schoolyard Ecology La Tonya Brown, Missouri Botanical Garden</p> <p>Description: What is living around me? Why is it important? A brief introduction to helping young students explore the schoolyard. KS/MO Core Competency Content Areas: 2.5.1b, 2.6.1a</p>
213	<p style="text-align: center;">Adult, Child, and Infant CPR Rachel Moylan, ACS Accredited CPR Services</p> <p>Description: Topics covered include CPR and foreign body airway obstruction in adults/children/infants, rescue breathing, personal safety, and emergency response. All participants will practice and become proficient in hands on training with a manikin. KS/MO Core Competency Content Areas: 5.1.4b, 5.2.3a</p>
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Room	1:20 p.m. Session Three
215	<p style="text-align: center;">Mindstorm LEGO Robotics</p> <p style="text-align: center;">Amanda Meek and Vince McKinney, UMSL 4-H Robotics</p> <p>Description: Participants will learn how to program the LEGO Mindstorm NXT robot to move forward, backward, and turn. Opportunities for robotics programming with Missouri 4-H will also be discussed.</p> <p>KS/MO Core Competency Content Areas: 2.1.2b, 6.3.1b</p>
216	<p style="text-align: center;">The Quirkles - Test Tubes, Beakers, & Beyond!</p> <p style="text-align: center;">Terri Johnson, Quirkles</p> <p>Description: The Quirkles-Test Tubes, Beakers, & Beyond will be a fun, interactive science workshop that will offer engaging, hands-on experiments and activities to incorporate science and literacy. Be ready to laugh and possibly get messy!</p> <p>KS/MO Core Competency Content Areas: 1.1.1c, 2.6.3b</p>
217/218	<p style="text-align: center;">Icky Sticky Science</p> <p style="text-align: center;">Saint Louis Science Center</p> <p>Description: Young children are natural scientists, always wanting to know why, how and if. Let the Saint Louis Science Center show you easy ways to engage your young learners and make science part of everyday. In this two hour workshop we'll reveal some of our best and most popular experiments like squishy slime, bubbling baking soda, seeing CO₂, and more.</p> <p>KS/MO Core Competency Content Areas: 2.6.3b, 6.2.3b</p>

Clock Hour Stickers:

Don't forget to attach your session stickers to the "Certificate of Attendance" which is enclosed in the Institute program book. This will assure you get credit for the sessions attended and the clock hours earned. Please bring your MOPD ID number with you.

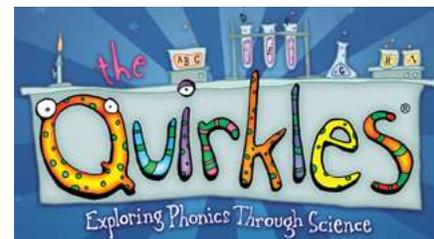


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