

Saturday, February 3rd 2018

KEYNOTE SPEAKER - 8:30-10:00 AM

Dr. Julia R. Greer, Ph.D.

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California Institute of Technology*

WORKSHOP INFORMATION

To support your conference experience, workshop sessions have been categorized by topic area (Science, Technology, Engineering and Mathematics). Additionally, the target audience has also been specified for each workshop. Conference attendees may follow one topic area for an in-depth, content-rich focus on a particular subject matter, or may pick and choose among topics to sample the full complement of conference offerings. The following are the listing of session tracks and their abbreviations.

CONTENT	TARGET AUDIENCE
S – Science	I – Infants K – Kindergarten
T – Technology	T – Toddlers F – First Grade
E – Engineering	P – Preschool S – Second Grade
M – Mathematics	TK – Transitional Kindergarten

WORKSHOPS

10:15-11:45 AM

“STEM Based Group Times and Extension Activities”

Room: Platinum 7

Presenters: Rachel Johnson, B.A., Shirley Irwin, B.A., and Deanna Hall, M.A.

Ventura College Child Development Lab School

Content: S T E M

Target Audience: P TK K

In this workshop we will explore the foundations of cognitive group times based within STEM experiences and then how to extend that learning into hands-on classroom experiences

“Ramps & Pathways: Investigations in Integrative STEM”

Room: Platinum 8

Presenter: Beth Van Meeteren, Ed.D.

Regents' Center for Early Developmental Education and Center for Early Education in STEM

Content: S T E M

Target Audience: P TK K F S

Come learn how to integrate science, technology, engineering, and mathematics with young children through building systems of ramps and pathways to move objects. Come see why teachers love Ramps & Pathways and how you can engage your students in integrative STEM. This project has been funded by the National Science Foundation.

“Animate vs. Inanimate: Real vs. Pretend”

Room: Platinum 9

Presenters: Janet Nunez, B.A.

The Children’s Center at Caltech

Content: S T M

Target Audience: T P

What is animate and inanimate? How do these opportunities unfold in the 2-3 year old environment? Join us as we share with you a curriculum of real and pretend. Explore how young minds distinguish similarities and differences between the two and the interaction of materials.

“Engineering Design and Problem-Based Instruction with the Next Generation Science Standards”

Room: Platinum 10

Presenters: Vanessa Stratton, M.Ed., and Ginger Teague, Ph.D.

Project Lead the Way

Content: S T E M

Target Audience: K F S

Prepare for a hands-on experience that exemplifies the application of the Next Generation Science Standards related to engineering design and increase student learning and engagement in STEM.

“The Young Artist as Scientist: What Can Leonardo De Vinci Teach Us?”

Room: Elite 1

Presenter: Mary Jo Pollman, Ph.D

Metropolitan State University

Content: S T E M

Target Audience: P TK K F S

This presentation will demonstrate tools and hands on approach to connect the arts (creative movement, visual arts, and music) and STEM. A Renaissance in ECE will take place just as it did in Leonardo’s Day.

“Creating 3-D Digital Landscapes in Programs & Classrooms”

Room: Elite 2

Presenter: Ingrid Anderson, Ed.D

Portland State University

Content: S T

Target Audience: T P TK K F S

Digital Technology goes well beyond a screen, technology is a tool to create science provocations that are multi-dimensional to engage children exploring small environments in a big way.

“Your Trash is My Treasure: Implementing STEM Through Recyclables”

Room: Elite 3

Presenter: Joshua Alvarez, B.A.

Kaplan Early Learning Company

Content: S T E M

Target Audience: All Ages

Attendees will actively explore exciting and innovative ways of implementing STEM using recyclables in our environment as a learning tool for intentional teaching and implementation. We will focus on analysis, reasoning and exploration.

“Fire Truck: A Vehicle for Learning”

Room: Gold Key III

Presenters: Kristin Sherman, M.A., and Adriana Olivera, B.A.

The New School-West

Content: S T E M

Target Audience: P TK K

A fire truck interest in the block area was used to promote engineering, literacy, math, science and parent and community involvement through constructivist and Reggio Inspired teaching philosophies.

“Mathematize This!”

Room: Desert Springs

Presenter: Robyn Stone, M.A.

Harker Preschool

Content: M

Target Audience: P TK K F

Mathematize This! will help teachers reveal mathematical moments hidden throughout the day by focusing on mindful practices, manipulatives, and much loved stories.

“STEAM on a Budget”

Room: La Jolla

Presenters: Yolanda Carlos, M.Ed., and Robert Boyman, M.A.

Pacific Oaks College & Children’s School

Content: S

Target Audience: P TK

Hands on workshop where participants will walk away with ready to apply activities at their worksites, integrating art and design into STEAM curriculum.

“Building Tomorrows Engineers By Making and Tinkering with Preschoolers Today”

Room: Los Angeles

Presenters: Joau Lee and Jean Barbre, Ed.D.

West Ed

Content: S T E M

Target Audience: P TK K

Join us as we actively engage in scientific inquiry and design learning experiences that support tinkering, making and engineering with 3, 4, and 5 year olds.

“From Outdoor Play to Outdoor STEM Instruction: A Collaborative Approach for All Learners”

Room: Newport Beach

Presenter: Laura Braverman, M.A.

LAUSD, Bellingham Elementary School

Content: S T M

Target Audience: T P TK K

A hands-on collaborative presentation on how to transition from outdoor play activities to outdoor STEM instruction while providing access to all learners.

“Exploring A Preschool STEM Professional Development Approach in the Context of the Garden”

Room: Rancho Las Palmas

Presenter: Alissa Lange, Ph.D

Department of Early Childhood Education, ETSU

Content: S T E M

Target Audience: P

Participants will explore a research-based approach to STEM professional development for preschool educators using hands-on explorations and rich discussions in the context of the garden.

“What Comes Next?”

Room: San Diego

Presenters: Jody Bodwell, B.A., and Nancy Jiron, B.A.

A.S. Children’s Center

California State University, Northridge

Content: S

Target Audience: I T P

Helping teachers understand how to present children who are dual language learners and the processes children go through in developing a second language.

WORKSHOPS

1:15-2:45 PM

“Incorporating the Preschool Learning Foundations through Emergent, Constructivist Curriculum: An Example of Arthropods in spring”

Room: Platinum 7

Presenters: Sandra Turreta, M.A., and Marlene Powell

STEM Sprouts Preschool

Content: S M

Target Audience: P TK

Its spring, and the children love roly polys, butterflies and bees coming out of the garden! We will explore hands-on how we took this interest and created foundation curriculum from it.

“Toddle around STEM”

Room: Platinum 8

Presenter: Amanda Lawson, B.A.

The Children’s Center at Caltech

Content: S T E M

Target Audience: I T

How do we integrate the concepts of science, technology, engineering and mathematics into a toddler classroom? Join us as we journey through the indoor and outdoor environment and how we explore materials with some of the youngest learners in early childhood.

“The STEM of Cooking”

Room: Platinum 9

Presenter: Olivia Garcia, B.A.

The Children’s Center at Caltech

Content: S T E M

Target Audience: P TK

What is the connection of science, technology, engineering, and math to cooking? This workshop will give instruction that will guide your cooking skills, give you knowledge of cooking tools, and how to integrate concepts of STEM.

“Robots, Robots”

Room: Platinum 10

Presenter: Kim Diaz, B.A.

Newport-Mesa Unified School District

Content: T

Target Audience: P

Incorporating robots in your daily lessons. Learn how to use Ozobots, Beebot, Dot and Dash and OSMO in your preschool classroom.

“The Music of STEM”

Room: Elite 1

Presenter: Dayita Datta, B.A.

The Children’s Center at Caltech

Content: S T E M

Target Audience: All Ages

Children are naturally curious about music and songs. See the relationship between instruments, songs, and movement to STEM in early childhood. This workshop will be hands on and interactive. Join us as we delve into the sound of music!

“Science Inquiry: Unlocking the Scientist in Every Child!”

Room: Elite 2

Presenter: Stephanie Lester, M.A.

Antelope Valley College

Content: S T E M

Target Audience: P TK K F S

Don’t miss this hands-on workshop which will demonstrate the importance of inquiry-based science curriculum. Experience first-hand how on-going science inquiry benefits children through the facilitation of PBL science activities.

“The Early Science Initiative: Using Science to Drive High-Quality Teaching and Learning in Early Childhood”

Room: Elite 3

Presenters: Alexandra Alexander, M.S., and Daryl Greenfield, Ph.D.

University of Miami

Content: S T E M

Target Audience: I T P

Participants will be introduced to the work of the Early Science Initiative and will gain an understanding of how to use science to promote high-quality teaching and learning experiences for infants, toddlers and preschoolers.

“The Roots of Innovation: Engineering for Early Learners”

Gold Key III

Presenters: Elissa Jordan, M.Ed.

*Engineering is Elementary
Museum Of Science, Boston*

Content: E

Target Audience: P TK K F

Examine the development of engineering practices for early learners through classroom video and discuss how to foster engineering skills and critical-thinking in all young children.

“The “E” in STEM”

Room: Desert Spring

Presenter: Sandy Silverman

Kodo Kids

Content: E

Target Audience: All Ages

Lear to foster an engineering mindset in children by focusing on process not just outcomes, when facilitating their play and investigations. Come tinker with materials and experience engineering first hand!

“Supporting Science Teaching & Learning in Pre-K & Early Elementary! Opportunities & Challenges”

Room: La Jolla

Presenter: Cindy Hoisington, M.Ed.

Education Development Center, Inc.

Content: S E

Target Audience: P TK K F S

In this session, we will explore some professional development strategies that can help teachers: deepen their own understanding of NGSS core ideas and practices; draw out and build on their students’ science ideas: and promote and extend classroom opportunities for doing, thinking, and talking about science.

“Young Innovators: Maker Spaces as Provocations for Learning”

Room: Los Angeles

Presenters: Jennifer Kesselring, M.A., and Tiffany Leal, A.A.

Riverfield Country Day School

Content: S T E M

Target Audience: T P TK

Maker Spaces as Provocations for Learning: The Integration of Tinkering, 3-D Printing, Wearable Technology, Coding, and Film Making in Inquiry Based Learning.

“Follow your Vision: A Dynamic Dialogue between Pedagogy & Architecture”

Room: Newport Beach

Presenter: Todd Erlandson, AIA, LEED AP, M.A., and Susan Wood, M.A.

March Studio

The Children’s Center at Caltech

Content: S T E M

Target Audience: P TK

In this session we will share one school’s story of fulfilling its vision of making STEM visible and available for children, and the collaborative relationship between pedagogy and space that supports it.

“Artful Engineering: Exploring Simple Machines through Drama, Movement, & Music”

Room: Rancho Las Palmas

Presenter: Jeanne Wall, B.A.

Wolf Trap Institute for Early Learning through the Arts

Content: E

Target Audience: P TK K

Through drama, puppetry, music and creative movement, we will explore Engineering’s methodology to problem solving, while learning about simple machines with arts integrated lesson plans for early childhood.

“Ecosystems and Habitats”

Room: San Diego

Presenter: Teresa De La Torre, B.A.

Content: S

Target Audience: P TK K

Join us as we investigate the study of ecosystems and habitats from a 4-5 year old perspective. With a focus on living organisms and non-living factors, we will explore the ecological environmental areas in which they interact as a system. Other areas of learning include: nests, ponds, gardens, insectariums, vivariums, and aquariums.

WORKSHOPS

3:00-4:30 PM

“Digital Paths: The Role of Robotics in the Classroom”

Room: Platinum 7

Presenters: Alison Maher, M.A., and Hailey Noble, M.A.

Boulder Journey School

Content: T E M

Target Audience: P TK K

This presentation follows two groups of prekindergarten children, one who adopts a robot as a classroom pet and another who begins to understand coding and programming through cooking and dancing.

“Language, Literacy & STEM Strategies for Making Meaningful Connections”

Room: Platinum 8

Presenter: Ruth Spiro, M.B.A.

Author

Content: S T E M

Target Audience: I T P TK K

Science, Technology, Engineering and Math provide rich opportunities for integrating Language and Literacy. In this session, a children's book author will share ways her work connects with language, literacy and STEM/STEAM.

“Cause and Effect in Infancy: An exploration of Force and Movement”

Room: Platinum 9

Presenters: Eloisa McGah, B.A., and Melissa Samples, B.A.

The Children's Center at Caltech

Content: S T E M

Target Audience: I T

Join us for an inside look into how the infant room integrates STEM in our curriculum. Discover how intentional environments encourages active exploration to construct knowledge about Cause and Effect with the emphasis on Force and Movement.

“Beautiful Oops! Imagine the Innovative Possibilities”

Room: Platinum 10

Presenters: Laura Schmidl, M.A., and Maria Elena Serratos, B.A.

Discovery Cube

Content: S E M

Target Audience: T P TK K

Featuring the book Beautiful Oops! by Barney Saltzberg, this workshop will celebrate “mistakes,” turning them into innovative ideas incorporating interactive science, math, and engineering activities.

“The Business Side of Developing a STEM Program”

Room: Elite 1

Presenters: David Cohen, B.A, M.S., and Jacob Cohen B.S.

Temple Sholom Selma Maisel Nursery School

Content: S T E M

Target Audience: I T P TK

Bring your dream S.T.E.M. program to fruition. Engage in financial planning (bring annual budget), gaining support from decision makers, engaging stakeholders/teachers and marketing. You will come back with plans and implement.

“Early Learning & STEM: Opportunities Ahead!”

Room: Elite 2

Presenters: Reagan Moore, M.A., Paula Gangopadhyay, M.A, Lovely Qureshi, Ellen Blinderman, M.A., and Carol Tang, Ph.D.

Institute of Museum and Library Services (IMLS)

Children's Museum at La Habra

Lawrence Hall of Science

Children's Creativity Museum

Content: S T E M

Target Audience: All Ages

In a talk show format, staff from IMLS, joined by a few museums, will share insights on funding opportunities, partnerships, and field-tested prototypes that are striving to make impact on the Early Childhood STEM pipeline.

“Examining Physical & Virtual Objects that Ignite Young Children’s Passion for Mathematics & Science”

Room: Elite 3

Presenters: Laura Grandau, Ph.D., and Ben Dickow, B.S.

Erikson Institute

Columbia Memorial Space Center

Content: S M

Target Audience: TK K F S

Participants will identify and analyze characteristics of and interactions with physical and virtual objects that draw young children into doing math and science.

“STEAM-ING up your Kindergarten Curriculum”

Room: Gold Key III

Presenters: Heather Jolly, B.A., and Hallie Rosenblum, B.A.

Polytechnic School

Content: S T E M

Target Audience: TK K F

This workshop will show how we have studied our curriculum over the past years and found meaningful and functional ways to weave STEAM into our already existing curriculum. Be inspired with curriculum, photos of classrooms and playgrounds with STEAM in action, lesson plans and hands-on activities you can take back to your classroom to enhance your own program with STEAM elements.

“Incorporating Culture and Caregivers into STEM”

Room: Desert Springs

Presenters: June Pua Aquino, B.A., and Danny Goya, B.A.

Partners in Development Foundation,

Ka Pa'alana Preschool

Content: S T E M

Target Audience: I T P TK

See how an NAEYC accredited preschool from Hawai'i that serves an at-risk population incorporates both the Hawaiian culture and family engagement into their STEM curriculum. Leave with a Hawaiian treat and a free book!

“Sense of Wonder: Science”

Room: La Jolla

Presenter: Ray Casillan, B.A., and William Straits, M.Ed., Ph.D

*Department of Science,
California State University, Long Beach*

Content: S

Target Audience: P TK K

We will share hands-on activities that engage teachers and their students in exploring science in their everyday world and that are appropriate for preschool and early elementary school students.

“Rigor vs. Play in Early Mathematics: A false and Risky Choice”

Room: Los Angeles

Presenter: Debbie Leslie, B.A, M.S.,

UChicago STEM Education at the University of Chicago

Content: M

Target Audience: P TK K

Participants will deepen their understanding of best practices in early math by exploring mathematics tasks for young children that are playful AND rigorous, but not “pushed down” from older grades.

“Engaging Young Minds in STEM Learning with Nature”

Room: Newport Beach

Presenter: Dipanwita Ray, M.Ed.

University of South Carolina, Columbia

Content: S M

Target Audience: P TK K F S

This interactive workshop will address STEM learning in nature with rocks, shells, plants, leaves, sand, water and other materials for children. Participants will focus on ways of setting up the environment, learn strategies that provokes a child's natural curiosity, and get take away lessons and other materials to design STEM activities.

“Scientific Terms: Why are Teachers Afraid of Them?”

Room: Rancho Las Palmas

Presenters: Elmida Baghdaserians, Ed.D, & Seavda Chamras, Ph.D

Los Angeles Valley College

Content: S

Target Audience: All Ages

Most teachers in ECE spent a great deal of time engaging children in learning opportunities, however they shy away from explaining scientific experiences to children due to the lack of knowledge and fear of making mistakes. This workshop is designed to help ECE teachers become more confident with scientific language and the use of it!

“Everyday Mathematics: Or Why Shoes Are Not Only for Your Feet”

Room: San Diego

Presenter: Alyse Hachey, Ph.D

University of Texas at El Paso

Content: M

Target Audience: P TK

This workshop will identify the general trajectory for representing mathematical knowledge. It explores how interactive and collaborative problem-solving with familiar objects naturally fosters mathematically rich vocabulary and authentic sense-making.