The 13th Annual Conference on Integrated Computing and STEM Education

Student Progress & Achievement in Math with Coding & Robotics

UC DAVIS C-STEM Center

Friday, October 20th, 2023
UC Davis Conference Center

Supporting Student Progress in Mathematics: A Framework for All Learners

Keynote: **Dr. Mike Torres,** Director of the Curriculum Frameworks and Instructional Resources Division at the California Department of Education (CDE)
Moderator: **Dr. Barbara Nemko,** Superintendent, Napa County Office of Education

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Redlands Unified Leading the Change in Math and Computer Science Teaching & Learning

Dr. Ken Wagner, Assistant Superintendent of Ed Services at Redlands USD
Deepika Srivastava, STEAM & Innovation Coordinator, Redlands USD
Moderator: **Dr. Eduardo Mosqueda**, Associate Professor, UC Santa Cruz

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Engaging All Students on Learning Math with Coding and Robotics to Solve Real-World Problems and Increase Math Performance

Panelist:
Dr. Brenna Godsey
Principal
McPherson Magnet

Panelist:
Dr. Monica Murray
Principal
West Orange Elem.

Panelist:
Dr. Andrea McClain
Principal
Chaparral Academy

Moderator: Dr. Suzie Dollesin, FPM Review Lead, Educational Data Management Division, CDE

Breakout Sessions

1A. Hands-on: Getting Started with RoboBlocky for Absolute Beginners to Teach Math and CS with Robotics
1B. Strategies on Integrating C-STEM Math and CS Curriculum into K-12 Education
1C. Live Teaching: Students Learning Math with Coding and Robotics in Action
1D. Arduino: Introduction to Basic Electronics and Creative Problem Solving for Physical Computing
2A. Hands-on Experience for Engaging Students Learning Math with Coding and Robotics
2B. Best Practices on Integrating C-STEM Math with Robotics Curriculum into Elementary School Math Education
2C. District-wide Integration of C-STEM Math with Robotics Curriculum into K-12 Math Classroom Teaching for Small School Districts
2D. C-STEM PD, UCD/UCR CS Supplementary Teaching Credential Program, & AP Computer Science Principles
3A. Hands-on: CS with Music, Art, Language Arts, Universal Design for Learning (UDL), and LMS
3B. Best Practices on Integrating C-STEM Math with Robotics Curriculum into Secondary School Math Education
3C. School-wide Integration of C-STEM Math with Robotics Curriculum into K-12 Math Classroom Teaching
3D. Expanded Learning: RoboPlay Competition, Girls In Robotics Leadership (GIRL)/GIRL+ Camps, Ujima GIRL Project, Afterschool and Summer Robotics Camps for Accelerated and Deep Learning of Math

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For more information, contact
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