March 27, 2019

81st Annual ITEEA Conference
Kansas City, MO

STEM⁴: The Power of Collaboration for Change
Panelists:

Ron DeChristoforo - State Policy Director/Education Technology, Texas Instruments

Jeff Weld - Executive Director, Iowa Governor’s STEM Advisory Council and STEM Education Policy Consultant, Office of Science and Technology Policy, White House

Barnes, David
Associate Director for Research, Learning, and Development, NCTM

MacLaren, Peter - Executive Director, Next Gen Education, LLC

Steven Barbato, ITEEA Executive Director/CEO

Kanika Carver, Strategic Alliance Director, Texas Instruments
STEM^4: The power of collaboration for change

A joint document authored by Advance CTE, Association of State Supervisors of Mathematics, Council of State Science Supervisors, and International Technology and Engineering Educators Association
The Major Issues

» Lack of STEM preparedness

» Many STEM careers have not yet been envisioned

» Lack of Equity
Three Main Principles

Principle 1.

STEM education should advance the learning of each individual STEM discipline.
Three Main Principles

Principle 2.

STEM education should provide logical and authentic connections between and across the individual STEM disciplines.
Three Main Principles

Principle 3.

STEM education should serve as a bridge to STEM careers.
Why does this matter?

» Student engagement

» Relevance

» Funding opportunities
Recommended Actions

» Ensure high-quality STEM learning

» Increase access and equity for students

» Provide professional learning opportunities for teachers.
Thank You!

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