

You are invited to explore the power and promise of a STEM education!

The Overlooked STEM Imperatives: Technology and Engineering, K–12 Education

Take this opportunity to gain a better understanding of the need for STEM education and its critical role in creating a technologically literate society. The rationale for the “T” and “E” has been specifically addressed in order to gain support for these subjects as part of the overall STEM effort.

Chapters cover the following topics:

- Background and History of the STEM Movement
- The Power and Promise of a STEM Education: Thriving in a Complex Technological World
- The “T” and “E” in STEM
- The Contributions of Science and Mathematics to STEM Education: A View from Beyond the Disciplines of Technology and Engineering
- Technology and Engineering Program in Action
- Basic Resources in Support of STEM Education
- A Call to Action

This publication addresses the point that the superiority of a country as a leader in technology is a desired quality and that the ability of an educational system to produce individuals with these abilities is also a desired quality. Providing

support for a meaningful STEM education is critical in order to perpetuate a thriving society, contribute in a meaningful way towards building our own future, and provide students with a need to achieve.

Viewpoints are given by leaders in the field, including

- Gerhard Salinger, National Science Foundation
- Karen Zuga, The Ohio State University
- William Havice, Clemson University
- Michael K. Daugherty, University of Arkansas
- Sharon Brusica, Millersville University of Pennsylvania
- William F. McComas and Kim K. McComas, University of Arkansas
- Kendall N. Starkweather, DTE, International Technology Education Association
- Krista Jones, Bellevue Elementary School, Bellevue, ID
- Brian Lien, Princeton High School, Cincinnati, OH
- Lemuel “Chip” Miller, DTE, Cody High School, Cody, WY
- Marlene C. Scott, J. B. Watkins Elementary School, Chesterfield, VA
- Gary Wynn, DTE, Greenfield-Central High School, Greenfield, IN
- Tom Zerr, Pittsburg Community Middle School, Pittsburg, KS

You are invited to explore the power and promise of a STEM (science, technology, engineering, and mathematics) education through this publication, but more importantly, to seek to understand the importance of ensuring that the “T” and “E” are equal partners within STEM to adequately prepare the next generation workforce as well as valued contributors to our communities and society.

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