Engaging

The Visual Realization Program

Involvement + Experience = Understanding, Ownership and Long-Term Retention

A National Science Teachers Association (NSTA) Selected and Recommended Exemplary Science Program

Changing

Engaging and Teaching the Digital Generation of Learners in STEM Subjects

NSTA Changing Emphases Program Selection and Recommendation

An NSTA Success Story: *The Visual Realization Program was selected as 1 of 15 Standards-Based Success Stories for Exemplary Science in Grades 5-8*

Do the Standards really matter at the middle level? Nine years after the National Science Education Standards' release, just how well do science teachers in grades 5 to 8 actually use them to plan concept-based experiences, perform content focused activities, define improved teaching, and assess real learning? Nine years after the release of the Standards, the impact of 15 success stories to achieve the visions for the reform of teaching, assessment, professional development, and content are included in the Exemplary Science in Grades 5-8 Standards-Based Success Stories book. This vision corresponds to the Less Emphasis and More Emphasis conditions that conclude each section of the Standards, characterizing what most teachers and programs should do less of as well as describing the changes needed if real reform is to occur. This volume is the third in National Science Teachers Association (NSTA) Press's *Exemplary Science* monograph series, which provides the results of an unprecedented national search to assess how well the Standards' vision has been realized. The Visual Realization Program was selected out of thousands of programs and projects to be amongst the 15 success stories in the nation for improving STEM education. *Source: NSTA Press (www.nsta.org), 2006.*

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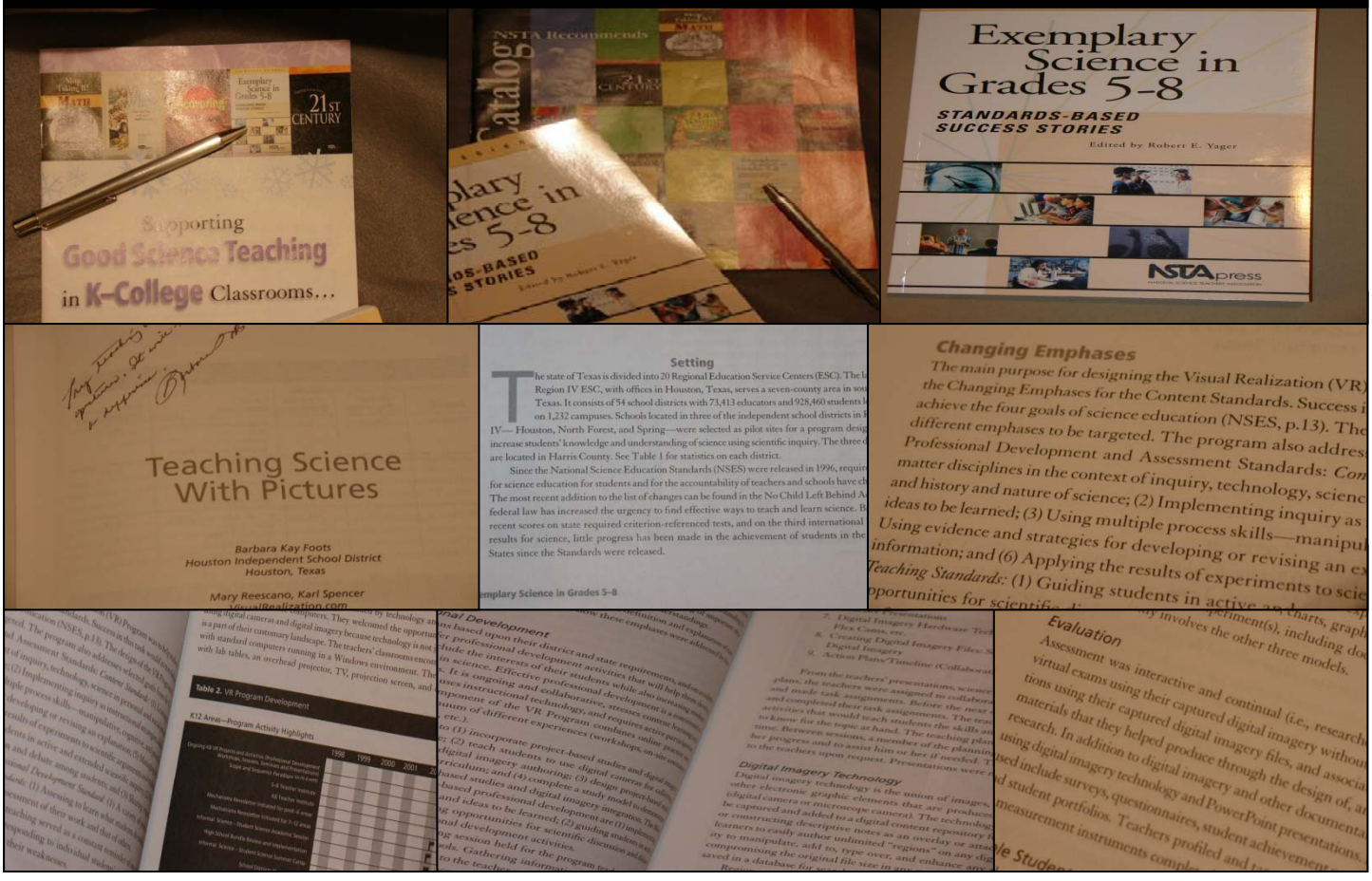

"Best Practices in Integrating Visualization Technology and Pedagogical Methodologies"