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Building NSTA's Future... Strategy 2010

Presented by:

Dr. Francis Eberle, Dr. Christine Royce,
Dr. Pat Shane, Mrs. Jean Tushie,
and Dr. Jerry Valadez

Tuesday, October 12, 2010
6:30 p.m. – 8:00 p.m. ET



Presentation Agenda

- Purpose of Web Seminar
- Task Force Introductions
- Background and Purpose of Strategic Goals 2010 document
- Process for Development
- Utilization by NSTA of the Strategic Goals
- Closing
- Evaluation
- Q and A



Purpose of Web Seminar



- To guide NSTA and its partners in their work to support science educator's needs and better prepare our country's students to be informed citizens and contribute to the nation's economy;
- To begin a dissemination process of the new Strategic Goals 2010 document;
- To help facilitate discussion of the new strategic goals amongst key stakeholders and affiliates.

NSTA Strategic Goals 2010 Task Force



- Pat Shane (Chair)
- Craig Gabler
- Harold Pratt
- James Puckett
- Carolyn Randolph
- Christine Royce
- Jean Tushie
- Jerry Valadez
- Brenda Wojnowski

*Members highlighted in red will be participating in the Web seminar tonight.

Background and Purpose of Strategic Goals 2010 document



- NSTA goals revisited every 5 years
 - Continued relevance
 - Need for new goals
- Goals form the basis for focus of NSTA staff as well as the Board, Council, and Alliance of Affiliates

Process for Development

Creation of Strategic Goals

- February 2009: Initial review conducted at winter meeting
 - Reviewed 2005 goals in terms of:
 - a) attainment
 - b) continued relevance/importance
- March 2009: Disseminated a survey to attendees at the NSTA National Conference in New Orleans and to NSTA membership via email (survey monkey)



Process for Development

Creation of Strategic Goals (continued):

- July 2009: While at the National Congress on Science Education, the Task Force met with NSTA Chapters, Associate Groups and Affiliates and added new topics to consider for goals
- Sept. 2009: Task Force met to begin shaping the goals
 - Took all the suggestions from winter and summer meetings plus the information collected from the surveys and put them on sentence strips
 - The sentence strips were sorted into categories



Process for Development



- Oct. 2009: Task Force met again to begin shaping the goals
 - These categories became the eventual goals
 - Focused on using active verbs
 - Several topics were infused into all the goals: research, diversity and technology
- Development of the goals was a yearlong process
- This was an inclusive process, all suggestion given were incorporated into the new goals



Pause for Questions



Process for Development

Identification of critical issues for NSTA/ science education community



- Several topics were discussed by the committee while working on the goals
- Key topics discussed included:
 - Elementary science education
 - Classroom practices
 - Cohesive curriculum
 - Cultural diversity
 - Environmental issues

Process for Development

- Key topics discussed included (continued):

- International/global connections
- Nature of science
- Professional development
- Research
- Resources & technology
- How to increase STEM learning opportunities for all K-12 students



Process for Development



- Key topics discussed included (continued):
 - How to help students learn core 21st century skills, such as critical and creative thinking, problem solving, and communicating and collaborating
 - How to ensure the unique needs and challenges of diverse and underrepresented students are met
 - How to bring together elementary, middle school, and high school teachers, informal educators, higher-education faculty, policy makers, STEM-oriented businesses and other partners to support professional development and advocate for the continuous improvement of STEM education



Pause for Questions



Process for Development

Creation of Strategic Goals



- Goal #1 - Promote active participation of all teachers of science in improving science education
- Goal #2 - Advocate for the central role of science education to benefit students and society

Process for Development

Creation of Strategic Goals



- Goal #3 - Support high-quality science teaching to improve student learning for the 21st century
- Goal #4 - Influence research in science education and promote its wide application to improve science teaching and student learning

Goal #1

- Promote active participation of all teachers of science in improving science education



- Objective 1.1:** Facilitate connections and collaborations between and among formal and informal educators.
- Objective 1.2:** Encourage collaboration at the local, state, national, and international levels.
- Objective 1.3:** Expand recruitment and retention membership strategies, including increased emphasis on attracting and retaining elementary teachers.
- Objective 1.4:** Engage the international science education community.
- Objective 1.5:** Provide diverse and flexible opportunities for science educators to network and communicate.
- Objective 1.6:** Create and develop science education communities that offer a variety of opportunities for both horizontal and vertical collaboration.

Goal #2

- Advocate for the central role of science education to benefit students and society



- Objective 2.1:** With policy makers and leaders in higher education, business, and industry, advocate for high-quality science teaching and learning.
- Objective 2.2:** Among school administrators and boards, advocate for high-quality preK–12 science teaching.
- Objective 2.3:** Advocate for high-quality science teaching at all levels, preK–20.
- Objective 2.4:** Engage families and community members, as well as teachers and students, in support of high-quality science teaching and learning.
- Objective 2.5:** Among the general public, promote scientific literacy for all citizens—as well as the particular importance of the STEM workforce.
- Objective 2.6:** Vigorously advance NSTA official positions on science education issues.

Goal #3

- Support high-quality science teaching to improve student learning for the 21st century



- Objective 3.1:** Develop tools, resources, and professional learning communities that support high-quality and effective science teaching.
- Objective 3.2:** Identify and provide innovative and research-based professional development offerings that increase science teacher knowledge of both content and pedagogy.
- Objective 3.3:** Expand NSTA's tools and resources to support effective science teaching in the elementary grades.
- Objective 3.4:** Create and disseminate high-quality electronic and web-based science education resources that support effective classroom practices at all levels.
- Objective 3.5:** Promote informal science opportunities for teachers and students.
- Objective 3.6:** Create and develop science education communities that offer various opportunities and resources for both horizontal and vertical collaboration.

Goal #4

- Influence research in science education and promote its wide application to improve science teaching and student learning



- Objective 4.1:** Facilitate connections and collaborations between NSTA members and the larger science and science education communities.
- Objective 4.2:** Support and provide research-based and data-driven professional development along the entire PK–20 continuum, including preservice.
- Objective 4.3:** Identify current, pressing needs (both in and out of the classroom) that impact classroom teaching, so that professional development offerings and other NSTA resources can be created, customized, and delivered.
- Objective 4.4:** Promote current research findings that demonstrate improved student learning.
- Objective 4.5:** Use research results to continually improve NSTA's professional development offerings.



Pause for Questions



Utilization by NSTA of the Strategic Goals



Internal

- Job Responsibility and Result Alignment
- Staff Goal Alignment
- Review Process

External

- Identification of Programmatic and Activities
 - Journals
 - Communities
 - Evaluation and Impact

Utilization by NSTA of the Strategic Goals



External (continued):

- Develop New Strategies
 - Explicit References to Research
 - Outreach to State Chapters
 - Evaluation of Programming
- Implement Strategies
 - New Electronic Means for Supporting E-groups
 - New Support Directed to Build Capacity for Engagement



Pause for Questions



Closing



Thank you for participating! If you have any additional questions or comments, please send an email to strategicgoals2010@nsta.org.

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