

Science, Technology, Engineering, Arts, Mathematics (S.T.E. A. M.)

Board Workshop - February 10, 2009

Jim Brazell Visit

Committee Members: Dr. Glenna Harris, Dr. Mike Mattingly, Ernie Stripling, Vicky Christenson, Grace Anne McKay, Staci Saner, Nicole Michener, Marty Thompson, Sharon Cox

What do we want to accomplish?

Objectives

Develop 4th year courses (integrated content) for mathematic/science/technology
Awareness of the value of Career Technical Education
Enthusiasm for integrated courses among students and teachers
Shifting from traditional view of Teaching & Learning to creating the world imagined
Develop cross-disciplinary skills plus soft skills that may be transferable
Move from local to global learning

Barriers

Knowledge of course pathways/opportunities all staff (including new), parents, students, and community
Teacher evaluation process [(PRIDE) the Denton version of Teacher Evaluation]] is too restrictive
Low parent involvement: low income
Funding doesn't support the growth
Accountability impairs new approaches
Teachers/leaders reluctant to take risks

Resources

Career counseling	Advanced Technology Center
HS credit at MS	IBO (International Baccalaureate)
Instructional Tech	Strong Staff Development Opportunities
Community partnerships/Volunteers	Location/Economics
Supportive School Board	DFW Metro resources/opportunities
Higher Ed support/partnerships	Dual Credit Courses

Intended Outcome of This Work?

Develop students with:

***College - Workforce Readiness Skills for 21st Century Careers**

Meaning---	***Problem-solvers/Critical thinkers
	***Collaborate with others successfully
	***Innovative & creative thinkers
	***Global citizen; awareness & understanding of internationalism
	***Resource management

Calendar of Events

Monday, February 16

- Jim Brazell visits the district throughout the day while accompanied by Mr. Ernie Stripling. He will visit Denton HS, Calhoun MS, Advanced Technology Center
- Mr. Brazell will address the High School Science teachers for about 30 minutes near the conclusion of their professional development day.
- “The Future is Here: Emerging Technology, Jobs, and Community Strategies” address will be given at Denton HS Auditorium at 7:00 pm. by Jim Brazell. It is open to the public. The message will be appropriate for all stakeholders in the community. The address focuses on emerging technologies and jobs and how communities can enhance innovation and competitiveness.

Tuesday, February 17

- A daylong workshop, “Mission from Mars” will be conducted with Jim Brazell and a group of approximately 50 DISD school leaders, teachers, students, university faculty, city, and other community leaders. The workshop will be held in Pecan A, Professional Development Center from 9:00 am until 3:00 pm. This will be the cornerstone of his work while here in Denton.

Wednesday, February 18

- A Leadership Debriefing Breakfast will be held at 7:30 am to 8:30 am in the Maple Room of the PDC with a small group of DISD leaders to review his impressions of our current work, debrief the work of Tuesday, have Q & A, and discuss possible recommendations for next steps.
- Mr. Brazell will address the middle school and high school principals at 9:00 am as an additional time together to further the message of transdisciplinarity and its implications for the 21st Century Classroom as it applies to middle school and high school work.