ANNUAL ASSESSMENT REPORT
AND
STRATEGIC PLANNING UPDATE
Year: 2008

Area or Unit Name: T-STEM CENTER
Area or Unit Leader: William Marcy Email: william.marcy@ttu.edu
Phone Number: (806) 74-2-34 Ext: 
Mail Stop: 3103

Section 1. Goals and Accomplishments

Goal 1: Program Excellence and Recognition: Enhance recognition of programs in K-12 STEM education at local, state, regional, national and international levels

Goal 2: Partnerships: Build strategic partnerships and alliances to enhance the mission of the Texas Tech T-STEM Center

Goal 3: Texas Tech T-STEM Center Development: Enhance the fiscal stability through development activities

Goal 4: Tradition and Pride: Enhance the regional, national and international image of the Texas Tech T-STEM Center
Section 2. Universal Quantitative Data

There are no Universal Quantitative Data for this area/unit.
## Section 3a. Quantitative Information

<table>
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<tr>
<th>Calendar Year</th>
<th>2003</th>
<th>2004</th>
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### Goal 1: Program Excellence and Recognition

1.1: Strengthen and develop quality professional development programs for K-12 educators.
- Number of schools adopting the engineering design FRAME®.
- Number of K-12 Educators attending professional development workshops.
- Number of workshops in T-STEM Center Catalog.

1.2 Disseminate T-STEM Center knowledge and resources regionally, nationally and internationally.
- Number of TechTotes distributed per year.
- Variety of TechTotes distributed per year.
- Number of presentations made at professional conferences.
- Number of articles published in respected journals.

1.3 Spark kids interest in engineering.
- Number of STEM based activities conducted for students.
- Number of students participating.
- Number of schools participating.

### Goal 2: Partnerships:

2.1 Form alliances with STEM oriented events and competitions.
- Number of students participating.
- Number of schools participating.

2.2 Forge industry and professional society.
- Number of memberships in education societies.
- Number of publications and presentations.
- Number of meetings attended.

2.3 Promote working relationships with other units.
- Number of collaborative grants and applications written.
- Resources and information shared per.

2.4 Continue on-going relationships with funding agencies.
- Number of grants submitted.
- Number of grants awarded.

### Goal 3: Texas Tech T-STEM Center Development:

3.1 Identify and solicit endowment for programs.
- Total number of development proposals written.
- Dollar amount of T-STEM Center Endowment.

3.2 Develop an annual support program among industry participants.
- Dollar amount of annual pledges.

### Goal 4: Tradition and Pride:

4.1 Increase activities that
<table>
<thead>
<tr>
<th>enhance the image of the T-STEM Center</th>
<th>Number of public relations communications disseminated</th>
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<tbody>
<tr>
<td>4.2 Host regional, national, and international events</td>
<td>Number of events hosted</td>
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<td>Number of T-STEM even participants</td>
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</table>
There is No Area Specific Data in Fall Section.
There is No Area Specific Data in Fiscal Year Section.
Section 3b. Qualitative Information.

- During FY 09 the T-STEM Center innovated the engineering design FRAME © which is a multidisciplinary framework for project-based teaching and learning of standards-based content at all grade levels. It aligns classroom activities with the processes of practitioners, and draws on workplace mechanisms that build consensus, enhance decision-making, and promote innovation—adding relevance to the student learning experience. Real-world conventions support a range of sound teaching strategies and assessments.
Commentary:

T-STEM stands for Texas Science, Technology, Engineering and Mathematics. T-STEM is part of a State of Texas initiative designed to motivate and prepare more students for careers in science, technology, engineering and mathematics.

Implementation Plan:
The mission of the Texas Tech T-STEM Center is to support educators in STEM disciplines. We're planning to do that by offering services directly to teachers. 1. Professional development workshops for teachers 2. Classroom resources for Texas schools 3. Activities for students 4. STEM-focused lesson plans and curricula.