

**Evaluation of Strategic Initiatives
Intake Form—Center for Education in Science and Technology**

Strategic Planning Initiative	
Center for Education in Science and Technology	Robert Rivers
<p>Date of Implementation of the Initiative: July 1, 2005. There is an ongoing curriculum project, NavOps Deep Submergence, that is funded by the National Submarine Science Discovery Center in Cincinnati, Ohio,. This project will be folded into the CSTE as its first initiative. A second site is being negotiated in the Seattle Washington Area with a Naval Museum.</p>	
<p>Initiative Goals (Objectives)</p> <p>Create science based curricular material for elementary, secondary, and college students (all P-16), based on scientific and mathematical research modeling. This is a development, dissemination and research center that focuses on the development and dissemination of innovative platforms for learning. Applied research will be done on the success of the models themselves and the process used to integrate them into the classroom.</p> <p>Create technology-based platforms for teaching STEM (Science, Technology, Engineering and Mathematics) subjects P-16. This will involve creating computer-based models for teaching and learning as well as re-purposing existing scientifically oriented research models for instructional use.</p> <p>Utilize expertise of PUC faculty in this Kroll and Lilly supported center. Hire new director (July 2006) who is an expert in this area. He/she must be a mid-career full professor who has been successful in writing grants and contracts in this area.</p> <p>The overall focus of the CSTE is to create exciting, innovative research-based technology to STEM teaching, in a relevant and timely fashion. The objective is to get students to learn science concepts and develop skills embedded in real work that represents contemporary scientific work.</p>	

Current Initiative Measures:

Two assessment schemes have been developed. One scheme is based on the strategic plan for the Center. There will be assessments of progress toward strategic initiatives and the work of the Director. The second scheme will be build into the development and dissemination of the materials. The success of the materials developed with be assessed by student achievement in the on performance assessments and standardized tests. Student success in scientific courses will also be tracked. The choice of a STEM career will also be tracked.

Specific Assessment Indicators are:

Number and quality of models as well as curricular modules are being developed.

Process results for bringing models to school districts. Integration into science teaching in schools.

Evaluation of learning through new curriculum (now assessment is being embedded into curriculum itself).

Future Initiative Measures:

The Center will work continuously on new models, simulations and platforms for learning STEM subjects. Processes for integrating these models into teaching and learning will also be the on-going focus of development and research for the Center