Teaching on the Edge

Synthesis and Dissemination of a High Altitude Ballooning Curriculum for Undergraduate Students Through the Web and an iBook

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Teaching on the Edge

Project Overview

Welcome to the Teaching on the Edge project, an educational program that combines various STEM disciplines into an engaging and unique learning experience that utilizes high-altitude balloons within the classroom. The project is designed to help students discover what it's like to be at the "edge" of our atmosphere. This website is both a reference guide and an educational tool for science educators at all levels.

Teaching on the Edge provides students with an opportunity to experience near space through the use of high-altitude balloons. The program includes a comprehensive curriculum, hands-on experiments, and educational resources to support classroom learning.

CURRICULA
- Undergraduate: Information, resources, and insights for teaching high-altitude ballooning to the undergraduate level.
- Pre/In-Service Teachers: Information, resources, and insights for teaching high-altitude ballooning to pre-service and in-service teachers.
- INFO
- Simulated Flights: Information, resources, and insights for teaching high-altitude ballooning to the undergraduate level.
- Resources: Information, resources, and insights for teaching high-altitude ballooning to the undergraduate level.

iLearn: Integrated Learning Institute Ball State University
21st Century Educational Practices

Open Educational Resources (OER)
Online Education
Blended Learning
Mobile Learning
Project Goals

Improve Teaching Tools
Curricular Development
Knowledge Sharing
K-12 Resources
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Building and Sharing HAB Curriculum

Subject Matter Experts
Instructional Designers
Media Development
Online Education Specialists
Learning Technologists
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Electronic Field Trips (EFTs)
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Design and Development of Website

Approach
Design
Subject Matter Experts
Timeline
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Using Video
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Flight Simulator

Flight Simulator April 5, 2011
14:00 | Play

Outside temp. -3.4°C
Humidity 12.4%
Pressure 46.2 mb

19962m
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iBook
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Conclusion Q&A

ilearn.bsu.edu/tote