



Dupont Summit 2016

Science, Technology, and Environmental Policy

December 2, Historic Whittemore House, Washington, DC

Presentation

“Online STEM Labs - An Effective Tool for Learning”

This presentation explores online *Science, Technology, Engineering, and Math* STEM labs: the pros and cons, the opportunities the inquiry based learning methodology, and its impact on student engagement. This presentation also examines operational factors, costs, challenges, barriers, and myths. Online learning is here to stay; it is widespread, and, it offers significant opportunities to enhance the quality of the learning experience. It also highlights the efficacy of online labs as compared to traditional labs. Online labs facilitate inquiry based learning and enhances student learning; and it supports the advances in the best practices in eLearning. It also examines why brain theory does not differentiate between online and traditional labs. It also shows how online labs prepare the student more effectively for the real world as compared to traditional labs.

Presenter

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