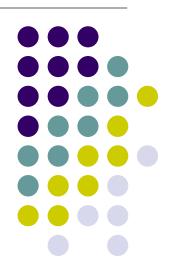
Building Learning Communities Conference 2011

The Global STEM Classroom

GTEC Global Technology & Engineering Consortium

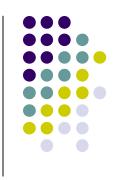




GTEC

Educating students who can succeed in a *flat* and *diverse globe*





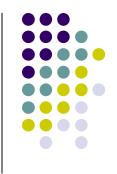
- Larisa K. Schelkin, Founder & Concept Author, CEO & President
- Annamaria Pisari Schrimpf Director of Educational Technology, Winchester Public Schools
- Isa Kaftal Zimmerman, Principal, IKZ Advisors, former Superintendent of Schools

Topics for today: Part one: All about GTEC



- Global Virtual STEM (Science, Technology, Engineering, Math) Classroom concept & background
- Global Diversity, Global Teamwork/Intercultural Communication
- Pilot 2010-2011
- Advisory Board
- How your school can participate





In today's global engineering market, engineers work in international teams & some experience difficulties in communication, relationships & understanding across different cultures.





- "A learning environment that moves with us" or, "classrooms without walls"
- Digital content
- One to one device to learner/teacher
- Online and hybrid environments
- Everyone is a teacher
- What we cannot yet imagine





- Working effectively /managing across cultures
- Using advanced communication technology for global engineering/ technology/science projects
- Developing a knowledge base for global engineering/ technology/science corporations

Diversity Skills Needed for Working Globally (in the GTEC Program)



- Examining one's own beliefs & assumptions about differences and stereotypes
- Ability to take cultural differences into consideration while participating in a project & building multicultural team
- Examining one's personal values & their impact on one's actions, reactions, & perceptions

And

- Developing various communication styles; verbal &non-verbal communication; contextual communication; native vs. foreign language
- Mindful consideration of cultural & stylistic differences
- Productive functioning of the global/virtual multicultural team while it works on designing/producing the final engineering product





To develop & use authentic international engineering/ technology/science projects for teams of secondary school students

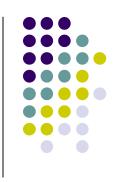
To pilot diversity curriculum



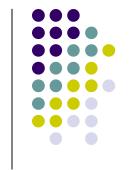


- Franklin Olin College of Engineering (Needham, MA)
- Spirit of Knowledge Public Charter School (Worcester, MA)
- Haywood College of Engineering (Stoke-on-Trent, UK)
- Keele University (UK)
- Newburyport HS (MA)





 21st Century Skills Needed for Working Globally (in GTEC Program)



21st century skills.1

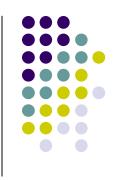
Learning & Innovation Skills Creativity& Innovation Critical Thinking & Problem Solving Communication & Collaboration





Life & Career Skills Information Literacy





Media Literacy ICT Literacy Global Awareness





- Enjoyed collaborating across the globe.
- Influenced thinking about a future career, a indicated STEM a possibility.
- Learning communication and design technology required direct instruction
- Needed how to learn virtually
- Needed 1:1 technology



Sources

 Tatyana Fertelmeyster, Connecting Differences, a consultant to GTEC

 Partnership for 21st Century Skills <u>http://www.p21.org/index.php</u>

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