

STRATEGIES FOR INCREASING DIVERSITY IN STEM LEARNING ENVIRONMENTS

HOSTED BY: STEM LEARNING & RESEARCH CENTER (STELAR)
EDUCATION DEVELOPMENT CENTER, INC.



Agenda

- STELAR Overview
- Presenters:
 - Sally Stevens, iSTEM
 - Michael Evans, Studio STEM
 - Anika Ward & Joseph Adamji, Bits-2-Bites
- Questions and Answers



STELAR Overview

- ITEST Learning Resource Center (2003-2012)
- STELAR Partners:
 - EDC, Inc.
 - EdLab Group
 - Goodman Research Group, Inc.

NSF's Innovative Technology Experiences for Students and Teachers (ITEST) Program

- To build understandings of best practices, factors, contexts and processes contributing to K-12 students' motivation and participation in STEM
- Helps students to be aware of STEM careers, and to pursue formal school-based and informal out-of-school educational experiences to prepare for such careers
- Includes **288** current and past projects across **44** states have served **247,700 students, 9600 educators, 3000 parents and caregivers**

STEM Learning and Research Center (STELAR) Goals

- Facilitate projects' success through **technical support** with a focus on synthesis of findings
- Inform and influence the field of STEM stakeholders by **disseminating** project findings nationally
- Deepen the impact and reach of the ITEST program by **broadening participation** in the ITEST portfolio



STELAR: Core Areas of Work

- **Technical Support** – Pre-proposal assistance, website, webinars, F2F meetings, working groups
- **Dissemination** – partnerships, dissemination network designed to share program findings
- **Outreach** – targeted outreach to institutions underrepresented in the ITEST portfolio (e.g., MSIs and community colleges)

<http://stelar.edc.org>

STELAR Website – <http://stelar.edc.org>

The screenshot shows the homepage of the STELAR website. At the top left is the STELAR logo, which consists of a cluster of colorful dots followed by the word "stelar" in a sans-serif font, with "STEM Learning and Research Center" underneath. To the right of the logo is a navigation menu with links for "Home", "About", "News", "Events", "Blogs", "Projects", and "Resources". Further right are "Log in" and "Contact Us" links. Below the navigation is a main content area with a dark blue background. On the left, there is a section for an "UPCOMING EVENT" titled "STELAR WEBINAR: ITEST SOLICITATION INFORMATION". The text below the title says "Learn about the current ITEST grant program from an NSF Program Officer." and there is a green button labeled "Learn more >". To the right of this text is a photograph of two people sitting at a table with microphones, likely during a webinar. Below the main content area is a light gray section with the tagline "Helping prepare a diverse, skilled, and innovative STEM workforce." and a search bar with "TEXT SEARCH" and "ADVANCED SEARCH" options. Below the search bar are four icons representing different services: "ITEST Program Findings" (a document icon), "Find a Project" (two beakers), "Find a Resource" (a briefcase with a checkmark), and "STELAR Materials" (a cluster of dots). At the bottom of the page, there are two boxes: "Upcoming Opportunities" with a link to "NARST: Request for proposals to host the 2015 Sandra K. Abell Institute for Doctoral Students" and "STELAR Newsletter" with the text "News from ITEST, current events, and more."

STELAR Website – What you can find

Upcoming Opportunities

People Connector Directory for ITEST Proposals

Due by Thursday, November 6, 2014 | [READ MORE »](#)

Discovery Research K-12 (DRK-12) Solicitation

Due by Thursday, October 16, 2014 | [READ MORE »](#)

Innovations: Call for Presenters

Due by Friday, September 26, 2014 | [READ MORE »](#)

Siemens Competition in Math, Science & Technology

Due by Tuesday, September 30, 2014 | [READ MORE »](#)

Google Rise Awards

Due by Tuesday, September 30, 2014 | [READ MORE »](#)

STELAR Newsletter

News from ITEST, current events, and more.

[Current Newsletter »](#)

[Newsletter Archives »](#)



Blog



August 26, 2014

NetSci High: Network Science for the Next Generation

This summer, twenty four students had an opportunity to meet Dr. Alex "Sandy" Pentland from MIT's

[READ FULL POST »](#)

July 14, 2014

Project Spotlight: Fueling the Ocean STEM Workforce Pipeline

STELAR recently had the opportunity to interview Jill Zande from the MATE ROV Competitions:

[READ FULL POST »](#)

[VIEW ALL BLOGS »](#)



STELAR

Monthly Highlight

Evaluation in the Context of ITEST Projects

[read more »](#)



Recent News

Bridging the Gap at the Central Park Zoo

March 12, 2014 | [READ MORE »](#)

Scientific American Article featuring ITEST Research Study

July 22, 2014 | [READ MORE »](#)

Upcoming Events

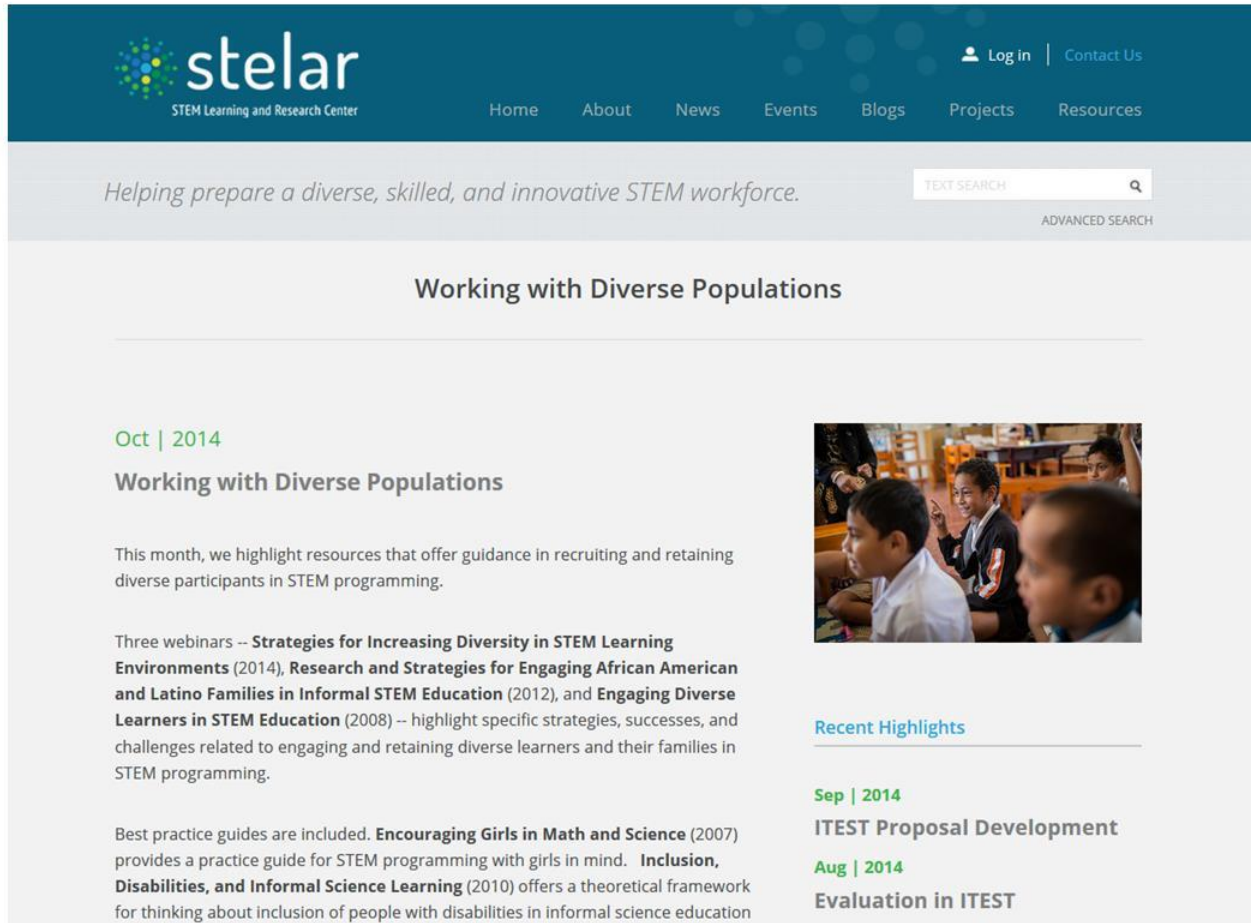
Sep 18 2014 - 3:00pm to 4:00pm

STELAR Webinar: Using Social Media to Disseminate Your Project Work

[READ MORE »](#)

Oct 16 2014 - 3:00pm to 4:00pm

STELAR Website – Resources




stelar
STEM Learning and Research Center

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Helping prepare a diverse, skilled, and innovative STEM workforce.

TEXT SEARCH 

ADVANCED SEARCH

Working with Diverse Populations


Oct | 2014

Working with Diverse Populations

This month, we highlight resources that offer guidance in recruiting and retaining diverse participants in STEM programming.

Three webinars – **Strategies for Increasing Diversity in STEM Learning Environments** (2014), **Research and Strategies for Engaging African American and Latino Families in Informal STEM Education** (2012), and **Engaging Diverse Learners in STEM Education** (2008) – highlight specific strategies, successes, and challenges related to engaging and retaining diverse learners and their families in STEM programming.

Best practice guides are included. **Encouraging Girls in Math and Science** (2007) provides a practice guide for STEM programming with girls in mind. **Inclusion, Disabilities, and Informal Science Learning** (2010) offers a theoretical framework for thinking about inclusion of people with disabilities in informal science education



Recent Highlights

Sep | 2014
ITEST Proposal Development

Aug | 2014
Evaluation in ITEST

Questions?



Stay Connected

Research Evaluation Working Group Virtual Conversation

Wednesday, December 3

2:00pm-EST – 3:00pm-EST

<http://stelar.edc.org/events/computational-thinking-technological-fluency-computational-literacy-and-21st-century-skills>

STELAR Contact Information

stelar@edc.org

<https://www.facebook.com/stelarctr>

https://twitter.com/STELAR_CTR