Welcome to the NGCP September Webcast!
We will begin in at 11:00 AM Pacific / 2:00 PM Eastern.
National Girls Collaborative Project

The National Girls Collaborative Project (NGCP) brings together organizations that are committed to informing and encouraging girls to pursue careers in science, technology, engineering, and mathematics (STEM).

www.ngcproject.org
Project Goals

1. Maximize access to shared resources within projects and with public and private sector organizations and institutions interested in expanding girls’ participation in STEM.

2. Strengthen capacity of existing and evolving projects by sharing promising practice research and program models, outcomes and products.

3. Use the leverage of a network or collaboration of individual girl-serving STEM programs to create the tipping point for gender equity in STEM.
Current Regional Collaboratives

http://ngcproject.org/map_regions.html

California
Connecticut
Florida
Great Lakes
Kentucky
Maine
Mid-Atlantic
Midwest
North Carolina
Northeast
Pacific Northwest
Pennsylvania
Texas
Tennessee
Upcoming Events

- September 26, 2009: MAGiC Kick-off (Rockville, MD)
- September 26, 2009: MI Lower Peninsula Kick-off (Flint, MI)
- October 3, 2009: MI Upper Peninsula Kick-off (Marquette, MI)
- October 10, 2009: Wisconsin Kick-off (Wausau, WI)
- November 6, 2009: GRITS Forum (Franklin, TN)
- November 9, 2009: KYGCP Forum (Northern KY)
- November 19, 2009: TxGCP Forum (Dallas, TX)
Upcoming Events

- Fall/Winter 2009
  - Northeast Forum (Western MA; November 2009)
  - Connecticut Forum
  - Science House Annual Conference (NC)
- January 21, 2010: FGCP Forum (Tallahassee, FL)
- January 22, 2010: FGCP Forum (Jacksonville, FL)
Upcoming Events

• Spring 2010
  • TxGCP Forum (Brownsville, Corpus Christi, Laredo)
  • TxGCP Annual Conference (San Antonio, TX)
  • FGCP Annual Conference (Orlando, FL)
  • KYGCP 2nd Annual Conference
  • KYGCP Forum (Western Kentucky)
  • PNWGCP Forum (Oregon)
Mini-grant Schedule

http://ngcproject.org/mini-grant/schedule.cfm

- GRITS: Open through end of September 2009
- TXGCP: September 21 – October 9, 2009
- MAGiC: September 28 – October 30, 2009
- Northeast: Opening soon; closing December 11, 2009
- Connecticut: Fall 2009
- KYGCP: January 2010
- FGCP: Spring 2010
KY Girls STEM Collaborative: A Growing Initiative
Vision

To bring together programs that inform and motivate girls to pursue educational choices in science, technology, engineering, and mathematics (STEM) in order to build a strong, diverse workforce in Kentucky.
To bring together business and other organizations as well as individuals who are committed to informing and motivating girls to pursue careers in science, technology, engineering and mathematics to encourage collaboration and improve inter-program communication.
Goals

• To strengthen the state’s institutional capacity to increase the number of women pursuing degrees in science, technology, engineering and mathematics (STEM)

• To create a wide audience for gender-related STEM issues

• To develop an organizational structure and process to assure continuation of girl-serving STEM programs
Why focus on Kentucky girls?

• Minimal increases in STEM Degrees Awarded since 1998

• Kentucky ranks 44th in percent of degrees awarded in STEM subjects

• Kentucky ranks 47th in percentage of scientists and engineers in the workforce

• KY Residents with Bachelors Degree: 17.1% in 2000 (National rate is 24.4%). (US Census data)
Why focus on Kentucky girls?

• Female graduates have surpassed their male counterparts in credits earned in mathematics and science classes in high school.

• Women are more likely than men to go to college.

• More women have earned bachelor’s degrees than men since 1982.

• Degrees awarded to women in science and engineering fields have steadily grown from 1995 to 2004.
Challenges

• Time and availability
• Money and funding
• Communications
• Data collection and analysis
• Leadership
Activities

• Press Conference (April 2008)
• Champions Board/Leadership Team (2008)
• Kickoff Conference (May 2008)
• Mini-grants awarded (July 2008 & Jan 2009)
• Public Service Events (at KET, 2008 & 2009)

• Regional Forums
  • Eastern Kentucky (June 2009)
  • Northern Kentucky (November 2009)
  • Western Kentucky (TBD)
  • Northwestern Kentucky (TBD)

• Annual Conferences
  • Lexington, Kentucky (June 2009)
  • Louisville, Kentucky (June 2010)

• Girls Day Out

• Gender Equity Workshop for Women
Collaborating Opportunities

- CPE grant with Northern Kentucky
- Listed under PIMSER Umbrella
- Project Lead the Way
- STEM Task Force Work Group
- Women's Equality in Education Act (WEAA) grant funded through Dept. of Education
- Girl Scout Elk Project
- NSF-ITEST grant with National Girls Collaborative
- Bluegrass Alliance for Women
- Math Day for Girls
- NSF ADVANCE Grant - University Kentucky
Next steps

• STEM website for Kentucky
  • Resource list online
• Regional leadership teams

• Continued forums and conferences around Kentucky

• Partnerships with current programs

• State conference participation
  • KSTA booth- November 2009
Leadership Team

Jann Burks
University of Kentucky
Dr. Doris Clark-Sarr
Murray State University
Jill Downey
Ceradyne, Inc.
Dr. January Haile
Centre College
Dr. Carol Hanley
University of Kentucky
Elaine Harrison
Kentucky Department of Education
Dr. Lisa Higgins-Hord
University of Kentucky
Dr. Sherie Kendall
Midway College
Laura Lynch
Bluegrass Community & Technical College
Dr. Nancy Martin
University of Louisville
Stephanie Shrewsbury
University of Kentucky
Ellen Nolan
AAUW Regional Liaison
Caroline Reid
Eastern Kentucky University
Dr. Jaleh Rezaie
Eastern Kentucky University
Sue Scheff
University of Kentucky
Suzann Shaver
Kentucky Department of Education
Dr. Tamara Sluss
Kentucky State University
Molly Toney
Prichard Committee for Academic Excellence
Laura Vickers
Ceradyne, Inc.
Lindsey Wolverton
Semicon Associates
Questions?

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Special thanks to Stephanie Shrewsbury for preparing this power point presentation.
Florida Girls Collaborative Project: Collaboration in Action

Presenter: Amy E Foster
Regional Lead
About Florida

• By 2010, Florida’s population will break the 20 million mark, making it the third most populous state.

• By 2011, the baby boom cohort will begin entry to retirement.

• FL scores below the national average on a number of success and education indicators.

• FL ranks 4th for number of high tech workers.

• High tech workers earn more than double the average of other employees.
Networking
Save the Date

Florida Girls Collaborative Project
Annual Conference

Advancing the agenda in gender equity for Science, Technology, Engineering and Math

October 10th • 9 a.m. – 3 p.m.
University of Central Florida Student Union, Orlando

For more details, please e-mail Amy Foster at afoster@gswcfl.org.

www.ngcproject.org
Annual Conference
Annual Conference
SHE WILL THRIVE

Did you know role models can be instrumental in influencing girls’ career choices in STEM?

How can I get my students excited about technology, science, or engineering, and work better with industry professionals and corporate partners to encourage outreach to students? Participate in this workshop and you will learn how to address these questions and help role models connect with girls in your community. With hands-on projects like the Green Dollhouse Project, and Cars and Engines that capture girls’ interest, Techbridge (of Chabot Science Center in Oakland, CA) has successfully put girls into the STEM pipeline. In this workshop, you will learn how to work with role models and corporate partners to host engaging visits and field trips. We will share our recipe for success—make it personal, passionate and interactive—and give you resources to make every role model encounter impactful.

To register or for more information, please contact Amy Foster: afoster@gswcf.org or (813) 262-1764.

April 22 • 1 - 3 p.m., (Webcast 4 p.m.)
Girl Scouts of West Central Florida
5002 W. Lemon St.
Tampa, FL

You Can Make a Difference: Learn How to Plan Role Model Visits and Field Trips to Inspire Girls in Technology, Science and Engineering
Research Based Strategies
Forum
Program Directory

125 programs listed
103 organizations
Located in 50 cities

Directory Includes:
Museums, Colleges, Private Organizations, Businesses, Public and Private Schools, Sororities, AAUW, Boys and Girls Clubs, Campfire, City and County Governments, Sheriff Offices, and Community Organizations
Mini Grants

- 8 grant recipients since 2007
- 19 organizations funded

2008-2009 Projects

- ACES Aerospace, Chemistry, and Engineering Sciences
- Girls Inc of Pinellas and Society of Women Engineers
- Alice Software Workshop for Teachers
- Florida First Lego League and Society of Women Engineers
- Girls Growing and Having Fun with Science
- New Smyrna Beach AAUW and Embry-Riddle Aeronautical University
- Girls Reach for the Summit
- Sarasota-Manatee Girls Reach for the Summit and Girls Inc of Sarasota
Florida Girls Collaborative Project Newsletter
Advancing the Agenda in Gender Equity for Science, Technology, Engineering, and Mathematics.

Did you know role models can be instrumental in influencing girls’ career choices in STEM?

You Can Make a Difference:
Learn How to Plan Role Model Visits and Field Trips to Inspire Girls in Technology, Science and Engineering
April 22 - 3 p.m. (Webcast 4 p.m.)
Girl Scouts of West Central Florida
5002 W. Lemon St.
Tampa, FL.

To register or for more information, please contact
Amy Possert: amypossett@girlscoutsofwcf.org (813) 368-1766.

To register for workshop or webcast please e-mail:
girlscouts@gwu.edu
How Do We Do It?

Collaboration

National Girls Collaborative Project
How do you perceive or have you experienced collaboration?
Why Collaborate?

• Better use of scarce resources; cost savings
• Ability to create something that you can’t create on your own
• Higher quality, more integrated product or service for the end users
• Potential for organizational and individual learning
• Better ability to achieve important outcomes
Case Studies: Collaboration in Action

- Science Center of Pinellas County
- Girl Scouts-Citrus Council
- National Center for Women in Information Technology
- Girls Go Techbridge
- Florida Engineering Education Conference
Case Study: Girls Go Techbridge
Power It Up
Want to help girls create an LED butterfly and Blinky Robot? Facilitate girls learning about electronics and circuitry through hands-on investigations. They will build circuits and learn about electronics components using Snap Circuits, create an LED butterfly and solder a Blinky Robot.

10 a.m. – Noon
$5 per adult

Power It Up & Design Time
Aug. 29 @ Tampa Service Center

Girl Scouts of West Central Florida
www.gswcf.org

Design Time
Would your girls want to design and market their very own toy? Facilitate girls learning about the engineering design process to design catapults, bags, and a bubble wand solution. Following a toy dissection activity, help girls work in teams to brainstorm and sketch their toy idea, make a prototype, and market their toy.

1:30 – 3:30 p.m.
$5 per adult

To register, please contact: pjjohnson@gswcf.org or 813.262.1824.
For more information, please contact: jhalladay@gswcf.org or 813.262.1768.
Make It Green
Discover how to deliver the Girls Go Techbridge “Make It Green” Program-in-a-Box. Learn how to facilitate girls building a green dollhouse and learning about green design, while at the same time developing science and engineering skills. Participants will enjoy hands-on projects, career exploration activities and learn how to help girls explore things they can do at home to lessen their environmental impact as well as learn about green careers.

October 24
$5 per Adult
10 a.m. – Noon
Tampa Service Center
Minimum: 15/Maximum: 30

ADULT LEARNING EXPERIENCE
Make It Green

To register, please contact: pjohnson@gswcf.org or 813.262.1824.
For more information, please contact: jhalladay@gswcf.org or 813.262.1768.

Girl Scouts.
Girl Scouts of West Central Florida

www.gswcf.org
Case Study: Florida Engineering Education Conference
Lessons Learned: Building the Relationship

- Involve stakeholders
- One on one relationships
- Build trust
- Clarify goals
- Determine ground rules
- Define relationship
- Listen
- Build on agreements
- Learn about culture
- Keep identities
- Expect bumps in the road
- Celebrate successes
Final Thoughts

• We will surely get to our destination if we join hands.
  Ang San Suu Kyi, Burmese Political Leader

• I not only use all the brains I have, but all I can borrow.
  Woodrow Wilson, U.S. President
Contact Information

Amy Foster
Regional Lead

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NGCP Mini-Grant:
Girls Inc. Day at OMSI
7/15/09
Who participated?

1. 12 girls ages 9-16 from the local Girls Inc. affiliate

2. Two Girls Inc. staff

3. Three OMSI staff: one exhibit developer, one evaluator, and one intern
What was the purpose?

1. To conduct front-end testing for a new exhibit & programming designed to attract girls to engineering
2. Start a collaborative relationship with Girls Inc. staff and participants
What did we do?

1. Discussed how exhibits are developed
What did we do?

2. Talked about the girls’ interests related to disasters, engineering & career choices
What did we do?

3. Tested different types of engineering activities
   – Hands-on design/build challenge
   – Group based story challenge
What did we do?

4. Asked girls to develop exhibit ideas for the project
Benefits of Collaborating

• Participating girls had a chance to visit OMSI and learn about OMSI behind the scenes
• OMSI learned more about our target audience for a new project
• OMSI & Girls Inc. can use this experience to support grant proposals to fund the project
Questions?

Kyrie Kellett
Exhibit Developer
Oregon Museum of Science & Industry
Portland, Oregon
kkellett@omsi.edu
503.797.4633
More NGCP Information

Program Directory
www.ngcproject.org/directory

Mini-Grant Application
www.ngcproject.org/mini-grant

Join the NGCP listserv
www.ngcproject.org/resources/newsletter.html

Upcoming Webcast
DO-IT (Disabilities, Opportunities, Internetworking, and Technology); October 20th, 2009 at 11am pacific