

2015 Iowa STEM Summit

March 30, 2015

(Session: STEM Volunteer Service)

Facilitator: Jeff Beneke, NE Regional STEM Manager; Krista Ferguson, Million Women Mentors; Mary Sheka, Volunteer Iowa; Adam Lounsberry, Americorps

Description: Share your input about what you think is necessary to support and expand STEM through volunteering, mentoring, and national service. The committee has been tasked to present recommendations to the STEM Advisory Council in June. If you are looking for volunteers/mentors, or if you would like to serve as a volunteer/mentor, hear about the opportunities available through Volunteer Iowa, Million Women Mentors, and Americorps.

Background and Status on the Volunteer Working Group:

- What we're charged with.
- Working group members.
- What we have done so far.

Million Women Mentors:

- Background
- Opportunities for involvement

Volunteer Iowa:

- Background
- Database
- Opportunities for involvement

Americorps:

- Background
- Opportunities of Involvement

Roundtable Discussions

- Broke into small groups.
- Facilitator in each group explained objectives;
 - Each person introduces themselves – Name, Organization, Role
 - Prompt with a list of discussion questions

- What do you do at your organization to promote or recruit volunteers/mentors and/or Americorps members?
 - How could we improve in this area?
 - What is missing? What/who/where is the solution?
1. Open discussion re: Needs—the school district needs to be more involved; teachers need more support from schools and the district. What’s missing? → District should provide examples of how you assess for STEM curriculum.
 - a. Discussion (*Note you will see a running theme below): There seemed to be a variety of experiences among this group (primarily educators) where some seemed to be in touch with resources that mapped STEM related coursework/opportunities to the Common Core objectives.
 2. Discussion of Scale-Up programs where the school district provides quite a bit of financial support to put on the program (training, room & board, etc.) One participant mentioned how hub managers provide support as well by loaning materials for programming (when the school does not have the resources to purchase materials for STEM programs).
 3. Large school district experience re: what is missing—teachers are busy/overwhelmed. One participant commented that IA Core has been frustrating to deal with and they have had challenges with putting on programs such as Lego League and Future City where the teachers are the “volunteers” but everything must take place outside of school hours. Teachers can incorporate some components within school day but it has to align with IA Core; there hasn’t been funding & support from the district for programs such as Future City.
 - a. Needs: improved communication from school district; make it easier for teachers to understand (*Note: as mentioned above there seemed to be varying experiences among participants with respect to school district support for programming).
 4. Discussed robotics competition. Iowa (or IA State?) lists all the robots competitions going on in the state but searching by county is cumbersome. Finding competitions on a statewide basis needs to be easier.
 - a. (Again) things could be easier for the teachers to understand, especially making the connection for elementary school teachers (e.g. this is a STEM activity that you can do for 3rd grade and here’s who you can contact with questions
 - b. Another participant mentioned that if the school district has funding they could bring in a STEM program directly (i.e. they don’t have to go through Scale Up)
 5. Suggestion: Since MWM has a goal to reach all 99 counties one way to achieve that is through the County Conservation Boards; each county has a conservation board and there is a STEM connection through the Conservation Board.
 6. West Des Moines Dowling has participated in the ACE (Architecture-Construction-Engineering) Mentor program.
 7. One organization mentioned recruiting volunteers through ISU’s job board.

8. Junior achievement has 1,000 volunteers state-wide working with youth. Rely on business partnerships to recruit volunteers. Junior Achievement has 23 programs, 10 programs offer some portion of STEM.
9. Organizations have listed events online in the past, but did not have any luck finding recruiting volunteers.
10. One organization mentioned they use Volunteer Match (<http://www.volunteermatch.org/>) to recruit volunteers.
11. Challenges: length of time a volunteer may be with an organization (short term), finding the volunteers, etc.



STEM Volunteer Service

What are the Opportunities? How to get involved?

2015 Iowa STEM Summit

March 30, 2015

Presenters:

Jeff Beneke

Krista Ferguson

Adam Lounsberry

Mary Sheka

STEM Volunteer Service Working Group

Our Team:

- Jeff Beneke, Northeast Iowa Region, Governor's STEM Advisory Council
- Adam Lounsberry, Iowa Commission on Volunteer Service (Americorps)
- Mary Sheka,), Director of the Iowa Mentoring Partnership
- Chad Driscoll, Program Officer, Education & Youth Development
- Krista Ferguson, Million Women Mentors Iowa Executive Council
- Lori Smith, Principal Financial Group
- Alissa Jourdan, Kemin Industries
- Adriana Donofrio, Rockwell Collins
- Bridgit Keller, John Deere
- Karla Terry, Linn-Mar Community School District
- Cynthia Boyd, Hawkeye Community College
- Angela Ventris, Girl Scouts of Eastern Iowa and Western Illinois
- Ellen Vanderloo, Waterloo Community School District
- Mayra de Catalan, Wells Fargo
- STEM Hub Managers

STEM Volunteer Service Working Group

Objective: Identify opportunities to support and expand STEM in Iowa through volunteering and national service.

Focus areas may include:

- STEM Mentoring
- STEM Volunteer Promotion/Recruitment
- STEM National Service programming (ie: AmeriCorps, etc.)
- STEM Employer Volunteer Engagement

The Latest: **October 23, 2014**
November 24, 2014
February 11, 2015
May 2015
Final product due June 30, 2015



STEM Volunteer Service

Krista Ferguson

MWM Liaison to STEM Advisory Council

MWM-Iowa



MWM·IA
Million Women Mentors™ – Iowa
Advancing Women and Girls in STEM Careers Through Mentoring

- MWM Objectives
- Assembled An Executive Council
- Established Goals for Iowa

Communicate

- Announcement Event
 - Held at the Iowa State Capitol
- Communication Platform
 - Website www.mwmia.org
- Reach all 99 Counties in Iowa



istock
by Getty Images

PLEASE, JOIN US!
STATEWIDE MEDIA ANNOUNCEMENT

MWM·IA
Million Women Mentors™ – Iowa
Advancing Women and Girls in STEM careers through Mentoring

Million Women Mentors (MWM) is an exciting initiative that's leading a call to action for corporations and organizations to increase the number of females in STEM learning and STEM careers.

CALL TO ACTION >>

- Increase % of high school girls pursuing STEM careers
- Increase % of women in college pursuing undergraduate degrees in STEM
- Increase % of women staying in STEM related fields after graduation

Million Women Mentors - Iowa has announced our goal of engaging 5,000 Mentors dedicated to this initiative by the year 2018, representing all 99 counties. We are inviting business leaders to join us for our statewide announcement from the Capitol on September 27. We hope you can join us!

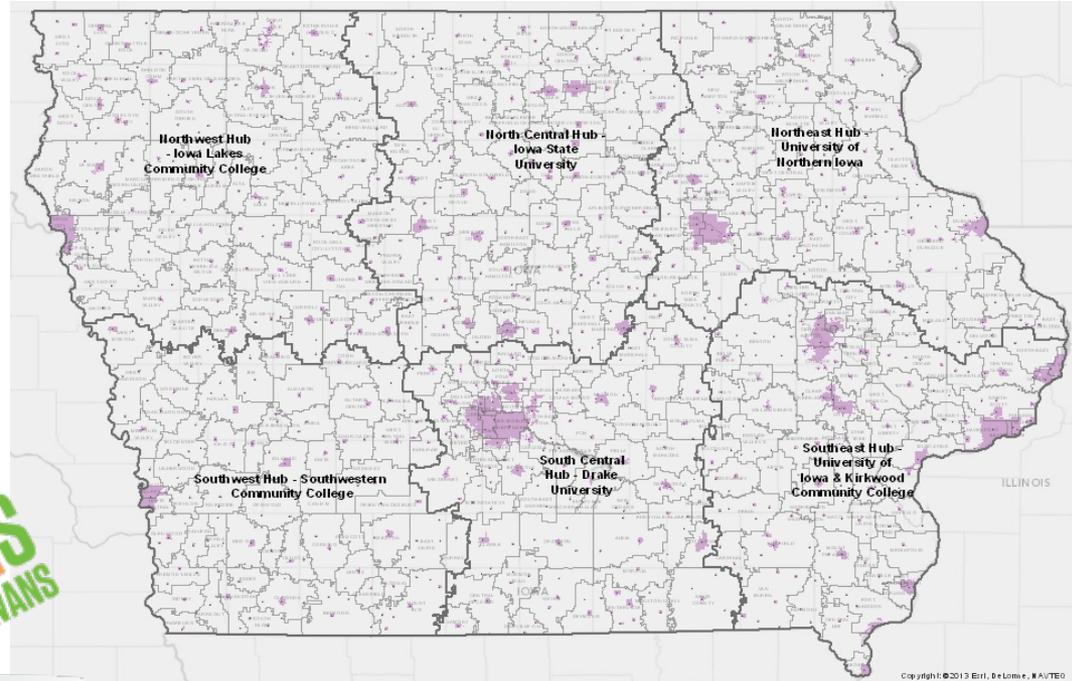
SEPTEMBER 27, 2014

9 – 9:30 a.m. Doors open for seating
9:30 a.m. Press Conference – Lt. Governor Kim Reynolds
10 a.m. Business Social time
10:30 a.m. Adjourn

FOR MORE INFORMATION, CONTACT:
NAME at Capitol
Jana Rieker, MWM-IA Chairperson • Mike Ralston, MWM-IA Co-Chairperson

Advocate

- Business
- Government
- Education



GREATNESS
STEMS
FROM IOWANS

MWM • IA
Million Women Mentors™ – Iowa
Advancing Women and Girls in STEM Careers Through Mentoring

Outreach

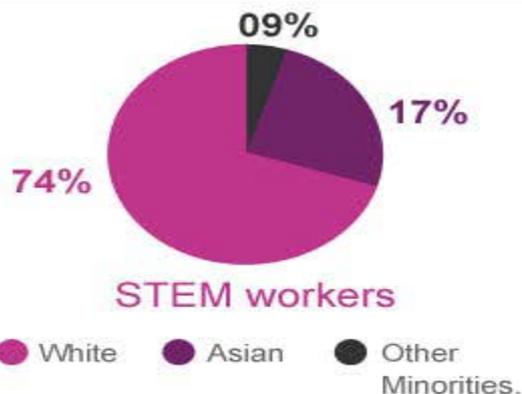
- Coaches' Mentoring Challenge
 - All 4 Major Iowa Universities Women's Basketball Programs
 - Junior Colleges and Private Colleges
 - High Schools



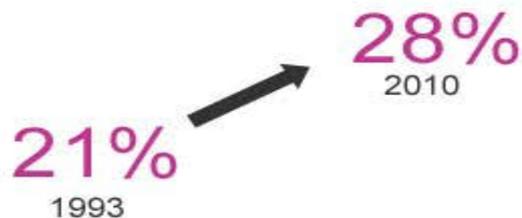
STEM Facts on Women & Girls



74% of STEM workers are male. Only 26% are female.

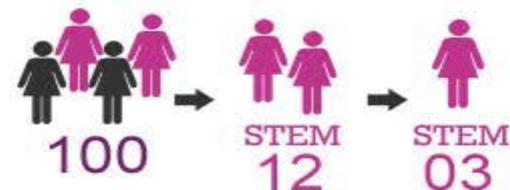


Women comprise more than 20% of engineering school graduates, yet only 11% of practicing engineers are women



Women were 28% of all workers in S&E occupations in 2010, up from 21% in 1993

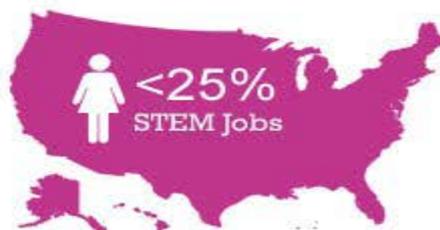
Women's presence among computer/mathematical scientists declined from 31% to 25% over the period, but only because men's rate of growth in this area was higher than women's. The number of women working in computer/mathematical sciences has increased more than in any other broad occupational area.



Of 100 female bachelor students, 12 graduate with a STEM major but only 3 continue to work in STEM fields 10 years after graduation.



The wage gap between women and men is much smaller in STEM occupations than other occupations. In STEM fields, women earn \$0.92 for every \$1 earned by men, compared to \$0.77 for other fields.



Although women fill close to half of all jobs in the U.S. economy, they hold less than 25 percent of STEM jobs.

Women with STEM jobs earned 33 percent more than comparable women in non-STEM jobs, considerably higher than the STEM premium for men. As a result, the gender wage gap is smaller in STEM jobs than in non-STEM jobs.

Get Involved

- Visit www.mwmia.org
- Pledge to mentor
- Spread the word!

Iowa Commission on Volunteer Service (ICVS)

Mission:

To improve lives, strengthen communities, and foster civic engagement through service and volunteering.

Vision:

To create an Iowa where all citizens are empowered through service to meet community challenges and make lives better.



Iowa Mentoring Partnership

- 80+ certified youth mentoring programs statewide
- Partnership with Million Women Mentors to promote STEM mentoring



iowa
MENTORING
PARTNERSHIP

Online Database of Statewide Volunteer Opportunities

The screenshot shows the homepage of the Volunteer Iowa website. At the top is a navigation bar with the logo 'volunteer IOWA' and links for Home, About Us, Individuals, Organizations, Employers, Register, and Login. Below the navigation bar is a 'Home' breadcrumb. The main content area features a 'People's Choice Award' graphic with a 'Vote Now!' button. To the right is a section titled 'Volunteer Iowa: the Iowa Commission on Volunteer Service' with an invitation to explore the website. Below this are two yellow buttons: 'FIND A VOLUNTEER OPPORTUNITY!' and 'POST A VOLUNTEER OPPORTUNITY!'. A circular seal for 'AMERICORP'S IOWA' is also visible. On the left side, there is a 'What's New?' section with links for the 'Governor's Volunteer Award' nomination process and 'Employers invited to participate in volunteer program survey'. At the bottom left is a Twitter feed showing a tweet from 'Volunteer Iowa'. On the right side, there is a '2015 Calendar of Events' table with entries for March and April.

Home

Home About Us Individuals Organizations Employers Register Login

Home

People's Choice Award
Iowa Volunteer Hall of Fame
Vote Now!

Volunteer Iowa:
the Iowa Commission on Volunteer Service

We invite you to explore our website to learn more about what we do and how you can improve your community through service!

FIND A VOLUNTEER OPPORTUNITY!

POST A VOLUNTEER OPPORTUNITY!

What's New?

[Governor's Volunteer Award](#)
nomination process launched for 2015

Governor's Council on National Service releases recommendations:
[View the Press Release](#)
[Download the Final Report](#)

[Employers invited to participate in volunteer program survey](#)

2015 Calendar of Events

MARCH	
24	10:00 AM - 12:00 PM, Iowa Commission on Volunteer Service Executive Committee conference call, 200 East Grand Avenue, Des Moines. AGENDA Contact Jody Benz , 515.725.3094
31	Midnight - DEADLINE, Volunteer Hall of Fame: People's Choice Award voting
APRIL	
1	Midnight - DEADLINE, nominations for 50 Faces of Volunteers recognition. Online Nomination Form

Tweets Follow

Volunteer Iowa 2h

Governor's Council on National Service

- Preliminary Report
- Initial Ideas
 - STEM Corps (+Arts)
 - Maker Spaces
 - Rural/STEM Teacher Corps
 - Mentoring Corps

Current Opportunities



Contact Information:

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Mary Sheka, Director Iowa Mentoring Partnership

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www.iowamentoring.org

We want to hear from You!!

- **Roundtable Discussions**
 - Each person introduces themselves – Name, Organization, Role
 - Discussion questions
 - What do you do at your organization to promote or recruit volunteers/mentors and/or Americorps members?
 - How could we improve in this area?
 - What is missing? What/who/where is the solution?
 - Other ideas?
- **Share out (All groups)**