COACh

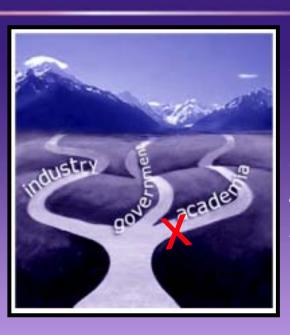
Working to Level the Playing Field for Women Scientists and Engineers





In the U.S.

PhD
scientists and
engineers we
have many
career
options.

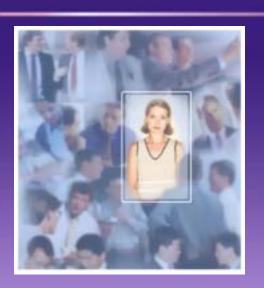


But many
women are
"Opting Out"
of the
academic
route.

WHY???



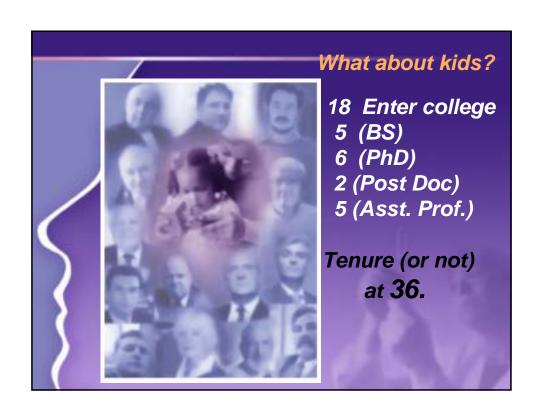
Are their perceptions scaring them away?



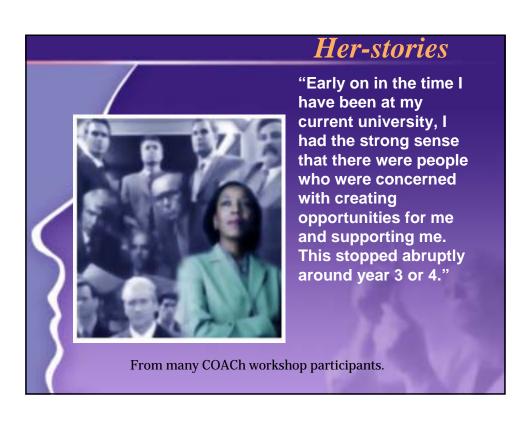
Do we give them the education and mentoring experience that makes feel they are competitive?











COACh

COACh is a grass-roots effort aimed at increasing the number and success of women in academic STEM fields.

Started initially in 1997 to serve the chemistry community, COACh programs have been widely adopted by many other science and engineering disciplines.

Website: www.coach.uoregon.edu Sponsored by NSF, NIH and DOE

COACh Goals

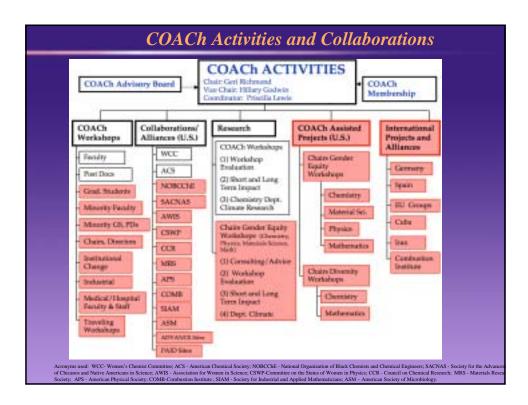
- Identifying inequities that negatively impact the women in STEM fields.
- Developing programs to level the playing field so women can compete on equal footing with men.
 - Institutional efforts
 - Individual efforts

COACh Programs

Its highest impact programs are COACh workshops that provide:

- Training in professional skills and strategies to help women achieve their career goals - and take more control of their career path. Developed for faculty, postdocs and grad students, and minority groups.
- Leadership training for STEM faculty, department chairs, deans, research center directors, etc. For single and mixed gender groups, and minority groups.

The workshops provide a unique setting for networking, brainstorming and sharing experiences in a supportive and empowering environment.



COACh Programs

Workshop Successes

- •To date over 450 women chemistry faculty have attended COACh Sponsored Workshops 30% of the women faculty in the top 100 chemistry departments.
- Over 3000 additional women in: geology, computer science, physics, mathematics, engineering, materials science, biology, and medicine have attended these COACh workshops funded by the hosting institution or group.

Professional Skills Workshops

The Art of Effective Negotiation

- #Communicating ideas
- #Negotiating effectively
- Being heard
- Effecting change
- Leading a group





#Especially effective for graduate students, postdocs and early career scientists and engineers.

Professional Skills Workshops

Beyond Negotiation: Difficult Conversations

Putting out fires without burning bridges

Learning Goals:

Identify behavior and languis



unproductive or inappropriate.

- Develop skills that reduce the heat rather than flame the fire.
- Learn techniques to help maintain your composure.
- •coLearn how to keep the dialogue

Professional Skills Workshops

The Art of Effective Leadership

Many roles: Teacher, group leader, department head, institute director...

Learning goals

- Effective strategies for effecting change.
- TFF (Uncontinue)* and a TFF (Uncontinue) are received to see that protein.
- Bringing groups to consensus on difficult issues.
- Team building techniques
- · Leadership styles effective for women leaders.
- Effective use of composure, body language and voice projection
- Characteristics of good and bad leadership.

Professional Skills Workshops

Leadership Workshops for Chairs

For Men and Women

Participants learn leadership strategies that can increase the success of their departments, institutes or centers.

- Unique challenges in leading scientists
- Communication skills, including management of conflict
- How to lead faculty through a change process
- How to bring a group to consensus
- Establishing and using allies



Participants apply skills to their own leadership challenges through group strategizing and role-playing.

COACh Programs

What makes these programs so successful? Key elements:

- Professional facilitators that have many years of experience in training and coaching in higher education.
- Research based strategies.
- Role playing and group discussions in small group settings.
- Research before and after workshops conducted to learn the impact of the

and the second s

COACh Impact

SCORES AND STATISTICS

Research on long-term impact of workshops on participants:

- 94% state that what they learned in the COACh workshops helped with their career advancement.
- Over a third (38%) reported that they took administrative positions after attending the COACh workshops;
- 86% of those credited COACh with either the decision to take on the position or with helping them in leadership effectiveness.
- Over 70% of postdoc attendees have attained faculty positions after leaving their postdoc.



COACh Impact

SCORES AND STATISTICS

Research results on short and long-term impact of workshops on participants:

- 91.3% state that they now feel more in control of their career because of the COACh workshop.
- 83% credit COACh workshops for reducing their personal stress.
- Over 90% have mentored others in the skills that they learned at the workshops.



What's good for the goose is good for the gander!



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Who needs these skills?

Isn't my scientific prowess enough?



Good science - requires good communication skills.

- increasingly relies

on effective teamwork.

- thrives on good

leadership and sponsorship.

- requires active

listening and observation.

- flourishes in a supportive ACh

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Why NOT?

Website: www.coach.uoregon.edu

NSF, DOE, NH Sponsored Workshop: Building Strong Academic Chemistry Departments through Gender Equity



Workshop on Building Strong Academic Chemistry Departments Through Gender Equity

January 29-31, 2006 Arlington, VA

56 Department Chairs from top Chemistry Departments ~30 University Leaders, Funding Agency Leaders and Speakers/Panelists

Followed by Physics (2007) Materials Science and Engineering (2008)

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Goals of the Workshop

- Educating Chairs on the factors that contribute to underrepresentation and under-participation of women faculty in the U.S. scientific enterprise.
- Developing a series of goals for the departments and institutions to increase the number and success of their women faculty in their institutions.
- ***** Following up on implementation of the goals.

Program:

Data Driven Presentations by Social Scientists and Academic Leaders Panels and Break-out Sessions

NSF, DOE, NH Sponsored Workshop: Building Strong Academic Chemistry Depayments through Gender Equity

Research on Immediate Workshop Impact

From COACh pre and post survey of the Chairs:

PRE: Principle factors limiting Chairs' ability to hire women were beyond their control, e.g.

too few applicants, losing candidates to other departments, spousal hires.

POST: More likely to report limiting factors were within their control, eg. departmental faculty not committed to or opposed hiring women, didn't have enough financing.

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Immediate Workshop Impact: Attitude shifts

The Chair's perceptions of factors that slow the progress of women chemistry faculty *changed* for 9 of the 11 sampled barriers including:

- Few available mentors
- Inability to recruit best graduate students.
- Women excluded from important departmental decisions.
- Lack of success in securing funding.
- Subtle biases against women.
- Unwelcoming departmental climate.
- Discrimination in peer review process.
- Heavier service/teaching load.
- Women do less self-promotion.



Workshop Action Items

- **Departmental Level:** Each department was to select 2 action items for implementation.
- Administrative Level: Propose gender equity action items to institutional administration
- **Funding Agency Level:** Work with funding agencies to develop new strategies for funding equity
- Follow-up:

Interactive website created by COACh for chairs to report their goals and progress towards these goals.

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Follow through: Commitment to Action Items

Action items selected by Department Chair goals: 45/56 responded on Website.

- Establish effective mechanisms for assisting career development of young faculty, especially women. (n=26)
- Double the percentage of women applicants in the pool. (n=22)
- Assure that mid- and senior-level women faculty in leadership roles. (n=21)
- Develop policies to facilitate the hiring women, including spousal hiring. (n=15)
- Make diversity an academic priority and develop programs that enhance recruitment and retention of faculty.(n=13)
- Consider personal obligations in academic scheduling and planning. (n=10)
- Educate faculty members in your department regarding the accumulation of disadvantage that impact women faculty. (n=10)

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