

Using Your Chemistry Education to Unlock Career Opportunities in the New Decade – A Story from the 2010 ACS President

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My Professional Journey



- **Education**
- **Opportunities**
- **Lessons Learned**
- **2010 ACS President**

My Professional Journey



How did the kid who had never thought about college become a distinguished professor?

My Professional Journey



My Professional Journey



*It hasn't been a straight path,
but if I had to do it all over
again...*

LESSON LEARNED:

PLAN AHEAD

LESSON LEARNED:

BE FLEXIBLE

Keys to Success... *beyond hard work....*

- ✓ Know Your “Toolbox”
...Don't be Limited by It
- ✓ Value People
- ✓ Be Curious !!!
- ✓ Engage Mentors
- ✓ Establish Networks

Most Important...

By all means take advantage of resources

ACS Online Career Development resources

WEBCAM RECORDED JOB INTERVIEWS

InterviewStream, the nation's leading video interview platform, provides video interview solutions to universities, employers and workforce investment boards around the globe including 9 of the top 10 global MBA Programs and the world's leading global outplacement firm.



- Practice Interviewing
- Share with Career Counselor
 - <http://boilthisdown.org/?p=1376>

2010 Presidential Platform



- Education
- Promoting Innovation
- Promoting New Employment Opportunities
- Partnerships

Presidential Goals



PROMOTING NEW EMPLOYMENT OPPORTUNITIES.

- New chemical technologies create products and drive economic growth. An American core competency has traditionally been entrepreneurship. Small companies provide employment opportunities and generate new ideas and technologies.
- Creation and implementation of new workshops for fresh academic graduates on how to start a company.
- Creation of a network of our experienced and retired chemical industrial leaders as advisers for new entrepreneurs.
- Development of a network to identify and assist capable domestic companies/entities to develop and provide new sought after materials and services.

Presidential Goals



- **INNOVATION:** We need a mechanism to support U.S. talent to go abroad to learn about innovations in the chemical enterprise and transfer that knowledge into the U.S. marketplace. We need a mechanism to maintain the influx of new innovations and ideas.
- **EDUCATION:** *Global skills are important in getting the job, keeping the job, and getting ahead in the job.* ACS must take a strong leadership role in the education system that prepares our future chemists and chemical engineers to compete globally.



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Globalization of the Chemical Enterprise



Global Skills for the Global Marketplace

San Francisco symposium features CTOs from industry and academic researchers discussing current skill sets valued by the chemical enterprise for today's global marketplace.



- Do current curricula address current needs?

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Presidential Task Force on International Center



Charge: To generate an international network of cooperation among global industry, government, and academia in creating and sharing new ideas in the chemical marketplace.

Chair: Peter Dorhout

Members: Jackie Barton, John Brennecke, Sabine O'Hara, Eli Pearce, Carolyn Ribes, Diane Schmidt, and Peter Stang

Presidential Task Force Innovation in the Chemical Enterprise. New Technologies for Society New Jobs for Chemist



Charge: To consider actions that will stimulate innovation, especially innovation that leads to new companies and jobs, across the chemical enterprise.

Chair: George Whitesides

Members: Chad Mirkin, Tim Swager, Henry Chesbrough, Pat Cafalone, Kathleen Schulz, and Michael Lefenfeld

Emerging Global Problems... ...Finding Solutions!



Energy
Food
Water
Security
Human Health



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The Future



Engaging our full demographic population in advancing innovation in the chemical enterprise



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Core Value Statement

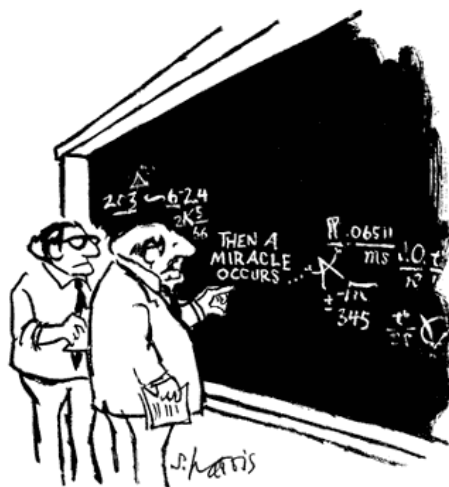
- The American Chemical Society recognizes the need to develop fully the academic potential of all the nation's citizens. The ACS will, therefore, develop and implement programs that will increase the participation of underrepresented minorities in the chemical academic community to a level that reflects their representation in the country's population
- Comment in C&EN News 2002, 80 (Vo. 19, May 13), 46

Presidential Task Force on Diversity

Charge: To move the ACS into a leadership role in promoting the education, professional development, and inclusion reflecting the diversity of America.

Chair: Jeanne Pemberton

Members: Allison Aldridge, Ron Estler, Carlos Gutierrez, Kimberly Houston-Philpot, Mary Jo Ondrechen, Anthony Revis, Judith Summers-Gates



"I think you should be more explicit here in step two."

Working together ...

*We can change the direction of
the Chemical Enterprise!*

Thank You

Questions...?

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**Upcoming Event:
January 21, 2010 2-3pm ET**



“How can Crowd-sourcing in Chemistry benefit ME??”

Join us to learn from speaker Apleus Bingham, co-founder InnoCentive, Chemist, Entrepreneur, and Visionary of Open Innovation. Heard all the buzz about crowdsourcing? Wonder how you and your company can benefit from Wiki model? Learn from our speaker how he has successfully brought open innovation into science and chemistry. Join us to explore the future of science in a crowdsource world.



ACS Webinars: Small & Medium Business Series

Connecting you with subject experts and global thought leaders in chemical sciences, management, and business.

To Register:

http://boilthisdown.org/?page_id=385