



In 2010, then ACS President Joseph Francisco assembled a task force of eminent scientists and charged them with coming up with actionable recommendations toward better assisting chemical entrepreneurs.

Joe provided the task force with clear "marching" orders to determine:

[CLICK] What were the root causes were for these historic job losses?

[CLICK] And what specific actions could ACS undertake to stem this tide, and help the chemical enterprise restore its leadership in product development.



These were several of the more probing questions addressed by the task force members.



4 key findings by the task force:

<u>1. Less disruptive innovation is occurring.</u>

We are still inventing and being creative, but not innovating in a way that brings market-changing products to the marketplace at our prior pace.

2. More & more of R&D being done by startups.

3. 300,000 jobs lost 4. Most new jobs in U.S. created by start-ups



Kauffman Foundation confirmed that startups provide new jobs across all industries (blue) - and existing firms – shown in grey – are sources of job loss.

This is a confusing slide as the job losses come only from the chemical industry, while the job gains above are from all startups including chemistry.



Ultimately, the Task Force recommended to ACS that it:

1. Help entrepreneurs with resources to launch and grow start-ups

2. Improve their business climate through policy initiatives

3. Increase their numbers through education as a viable career option

4. Publicize their efforts, broadly speaking



- In 2011, the ACS Board of Directors approved a two-year pilot program called the Entrepreneurship Initiative, for ACS members, the initiative has two key parts, the Entrepreneurial Training Program and the Entrepreneurial Resources Center.
- ACS has partnered with the Kauffman Foundation, a leading proponent of entrepreneurship. To date 29 member entrepreneurs have been granted \$500 stipend to offset Kauffman FastTrac course fees.
- Recently, 20 chemical start-ups were granted access to the Resources Center. In addition to ACS's information services, these companies will have access to the experienced chemical entrepreneurs as mentors, business advisors, and potential investors.
- □ All ACS entrepreneurs are provided with full access to all ACS Journals and CAS's SciFinder service at no cost under these programs.
- This initiative is currently in its 2nd year of a 2 year pilot. Are taking what has been learned thus far and refining the program to help chemical entrepreneurs better understand business operations and the business climate as well as how to de-risk their operations.



All the information about this initiative is on our website at WWW.ACS.ORG/EI

Chemical entrepreneurs now have a central location within the ACS Network to browse for news, find key professional service providers, get training, or otherwise obtain other valuable resources that can help advance their chemical start-ups.

- □ The Chemical Entrepreneurs forum is designed to benefit all entrepreneurs, regardless of development stage.
- □ We encourage you to visit the ACS Network and choose "Chemical Entrepreneurs" from the "Your Profession" menu.



- ACS updated its business climate advocacy statement and advocacy agenda to engage in job creation legislation in Congress, like the enactment of the America Invents Act which converted the U.S. patent system from first-to-invent to first-to-file and harmonized the U.S. system with others around the world.
- ACS also recently joined the <u>R&D Tax Credit Coalition</u> to work with 100 other organizations and associations toward a permanent, strengthened R&D tax credit
- ACS has embarked on creating more alliances with notable organizations such as the American Chemistry Council, Angel Investors Association, Council on Competitiveness, National Venture Capital Association, and National Association of Manufacturers, to name a few.





- Chemical & Engineering News dedicated a special issue on August 20[,]
 2012 to the plight of the chemical entrepreneur
- □ CEN has continued this focus on chemical entrepreneurs in many of the subsequent issues.



Let me start at the bottom with something that is part of my agenda for my presidential year of 2014.

The ACS Chemical Entrepreneurship Series is expanding its webinars to include additional topics relevant to chemical entrepreneurs, including resources for legal and finance basics and chats with successful chemical entrepreneurs.



- The ACS Webinars Chemical Entrepreneurship Series continues to grow in information offerings and popularity with industry professionals and entrepreneurs. The Series has received over 28,000 registrants.
- Since inception, the Series has expanded to include topics about legal and fiscal know-how, ideas evaluation, how to raise capital, as well as fireside chats featuring experienced chemical entrepreneurs.
- The ACS Webinars 2012 Chemical Entrepreneurship Series is co-produced with the ACS Chemical Entrepreneurship Council, a self-assembled group comprised of members of the ACS Division of Business Development and Management, the ACS Division of Small Chemical Businesses and the ACS Women Chemists Committee.



- it remains to be seen whether this legislation will ultimately benefit start-ups.
- □ The recently enacted Jumpstarting Our Business Startups Act better known as the JOBS Act – portends to bolster the start-ups access for seed funding. Until now, only "<u>accredited investors</u>"—a euphemism for that allowed people with specific incomes and assets only to invest privately in most startups and small companies. The JOBS Act will allow larger numbers of smaller investors to invest, and not just donate.
- Portals such as CrowdCube in the UK are emerging that enable small investors to provide small amounts of funding in exchange for ownership stakes in startups. Significant SEC regulatory hurdles were removed by the JOBS Act.

AC	CS Response – 2013 & Beyond (Cont'd)
	> KATHRYN C. HACH AWARD FOR ENTREPRENEURIAL SUCCESS
	recognize outstanding entrepreneurs who have created a
	commercially viable business within the chemical enterprise
	positive impact on people's lives and the economy by creating
	chemistry jobs that produce a significant economic benefit
	\$5,000 certificate
	C&EN exposure

We are especially pleased to announce the Kathryn C. Hach Award for Entrepreneurial Success, recognizing outstanding chemistry entrepreneurs.

□ More on this award is available through www.ACS.org/EI

