

Workshop: Aligning Industry and Academic Goals

Sponsored by AIChE and NSF



Background

- 2013 AIChE Annual Meeting plenary, chaired by John Chen, Jim Hill, and Jennifer Curtis: ***Chemical Engineering Expertise in Academe and as Sought by Industry***
- Follow-up: 2014 Workshop at the AIChE office with key stakeholders, led by Bill Schowalter and Ignacio Grossman

2014 AIChE Annual Meeting, November 16-21, Atlanta



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Vision

- Effective preparation of ChE students for diverse careers.
- Draw and share actionable insights from industry and academia about enhancing preparation of ChE graduates.

Key questions:

- What abilities, skills, and experiences should B.S. ChEs have when they graduate?
- What abilities, skills, and experiences should M.S./Ph.D. ChEs have when they graduate, especially if they have non-ChE B.S. degrees?
- How can faculty members best prepare to teach B.S. ChEs, especially if the faculty have non-ChE degrees?



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Task Force Members

Industry

- **Yang Luo***, Praxair
- Dilek Alkaya, Tesoro
- Rui Cruz, Dow
- Bill Provine, DuPont
- Bob Steininger, AcceleronPharma

Academia

- **Phil Westmoreland***, NCSU
- Ignacio Grossman, CMU
- David Silverstein, Univ of Kentucky
- Jan Talbot, UCSD
- Arvind Varma, Purdue

AIChE: **Kristine Chin****, **Darlene Schuster****

* co-chair, ** NSF grant PI & co-PI

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Part I: Survey

- Survey academia (department heads) and industry for chemical engineering graduates' preparation and industry needs.
- Survey administered by AMG with AIChE oversight; Targeted launch date Dec 2014.

Part II: Workshop

- Assess and vet the survey results.
- Develop insights with stakeholders and formulate paths forward.
- March 9-10, 2015, in Arlington, Virginia.

