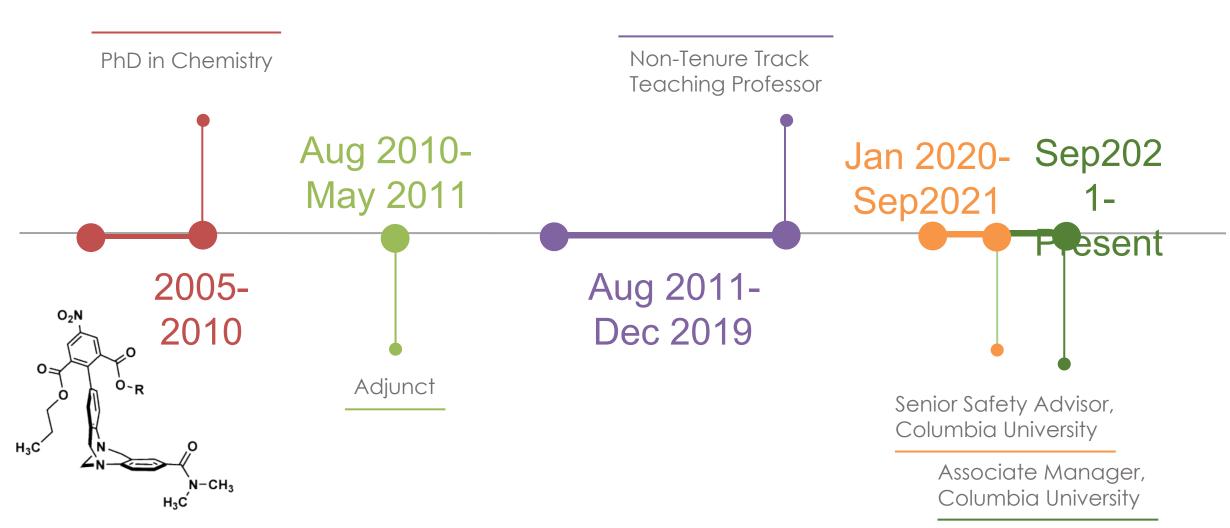


Case studies and chemical safety improvements

Dr. Sandra Keyser
Columbia University
Presented at the 2022 ACS National Meeting, 8/22/22

Personal background (NOT TO SCALE)

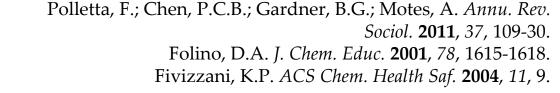


COLUMBIA UNIVERSITY
Environmental Health and Safety

The appeal of storytelling

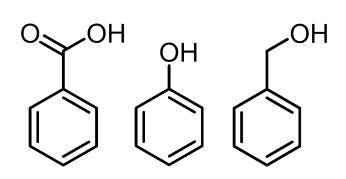
- Transmit information & show humanity
- Train others and communicate obligations
- Communicate organizational schemas
- Allows for reflection

- Effective stories:
 - Authentic
 - Conventional
 - Client-oriented



As a Teaching Assistant: Personal exposures



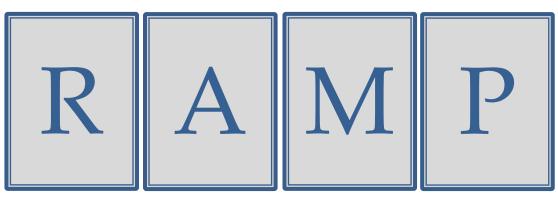






As a Teaching Assistant: Personal exposures

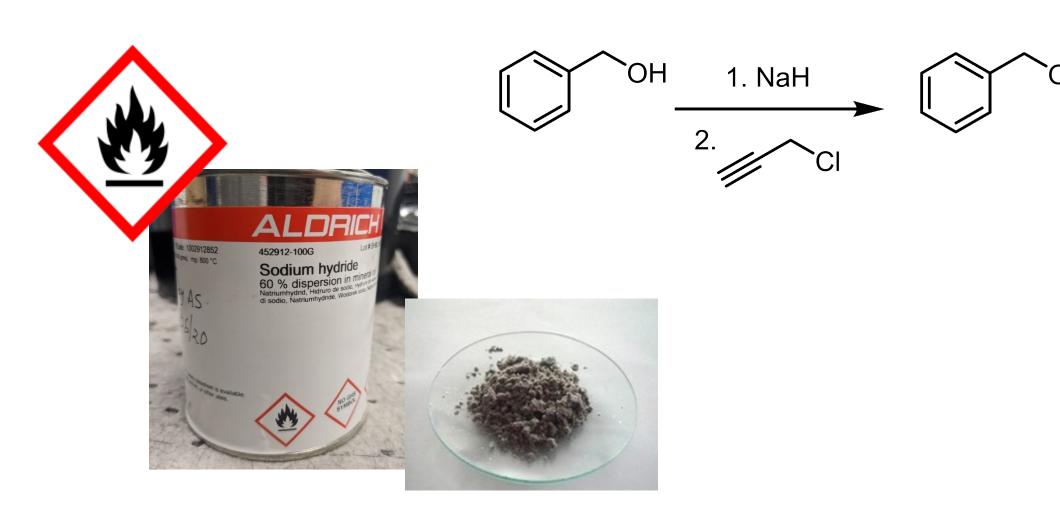








As a Graduate Student: Fires



As a Graduate Student: Fires



Lessons Learned As a Teaching Professor

- Stronger safety culture
 - Empowerment
 - Communication
 - Training & education with storytelling
- Building safety into the curriculum
- Routinization of controls
- Digital Learning Solutions
 For Laboratory Safety

- Stronger safety culture
 - Non-punitive communication about incidents
 - Santayana reports (stories)
- Thoughtful planning that can include EH&S

Acknowledgements

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Drew University

Images from Wikimedia Commons

- NaH powder image by И.С. Непоклонов
- NaOH pellets
- Eyewash shower by <u>Atlantic Training</u>