

Sustaining an Engineering Career

Leslie M. Phinney

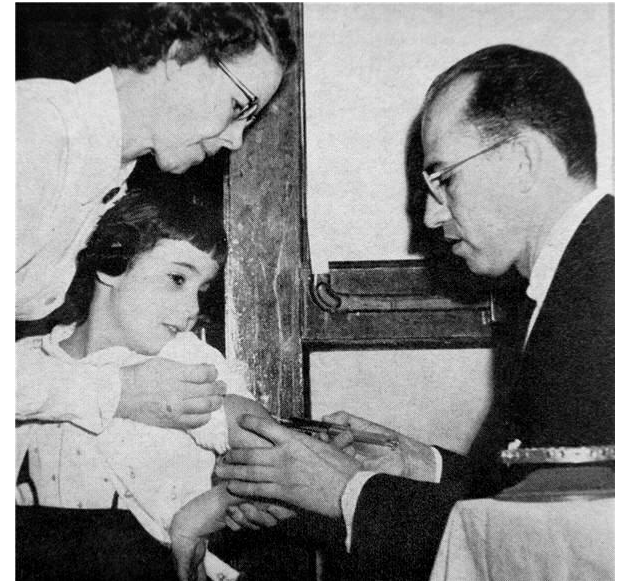
Changing the World

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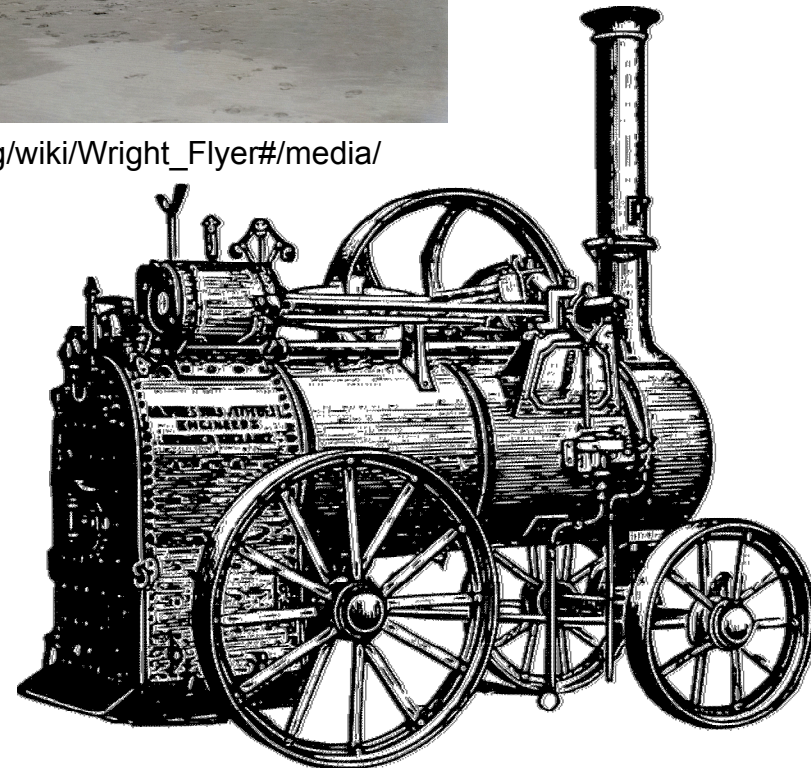
Changing the World – Thermal/Fluids



<https://pixabay.com/en/>



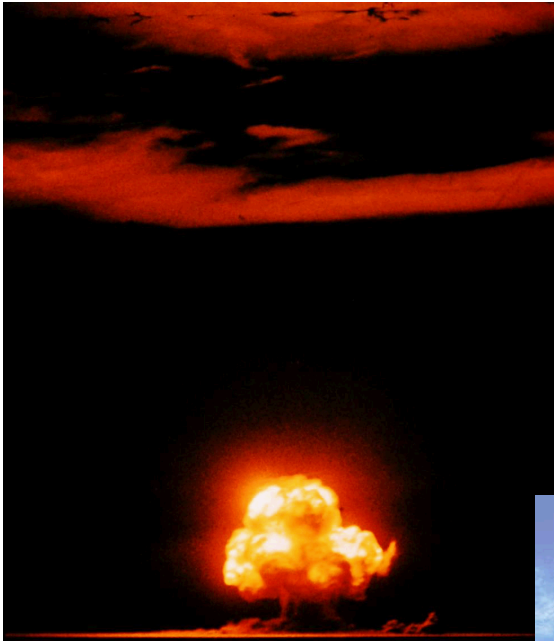
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Changing the World - Sandia

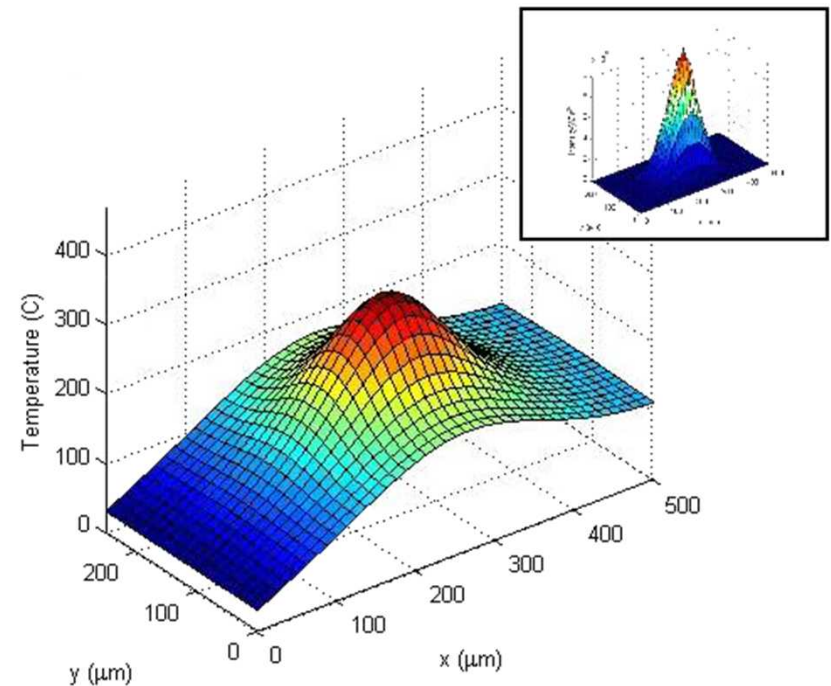
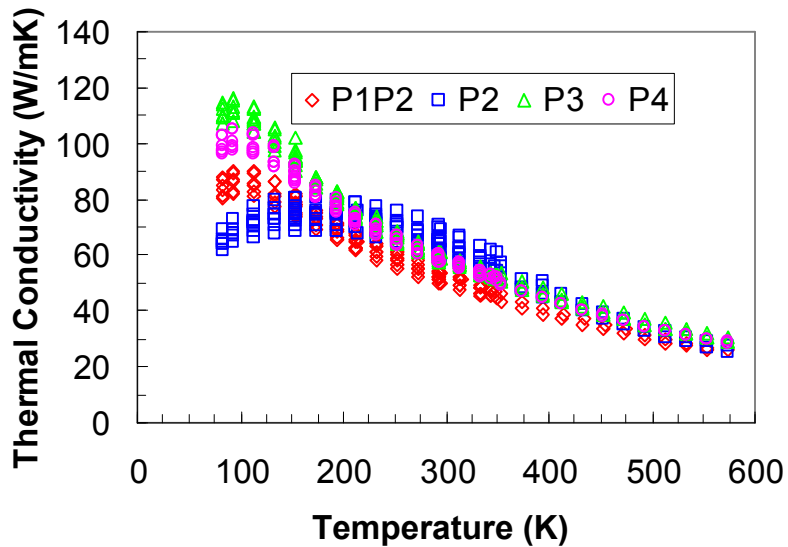
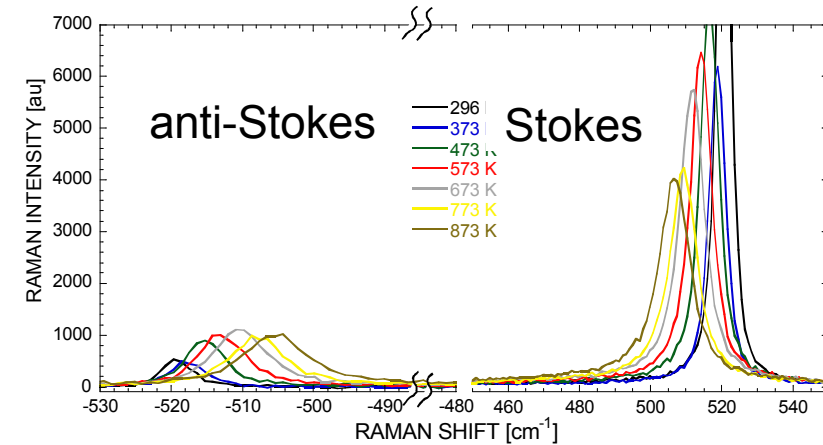
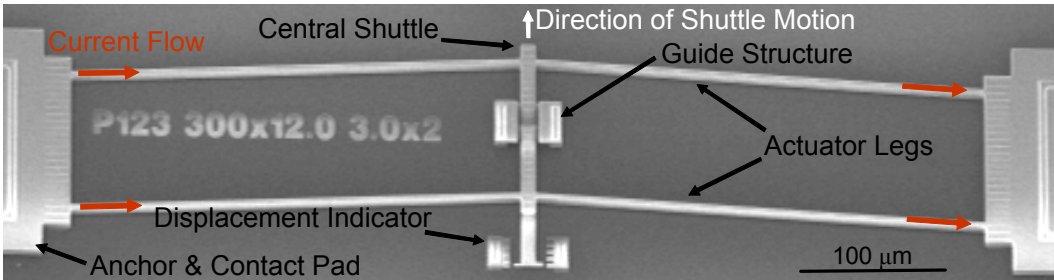
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Willis Whitfield
Laminar Flow Clean Room Inventor

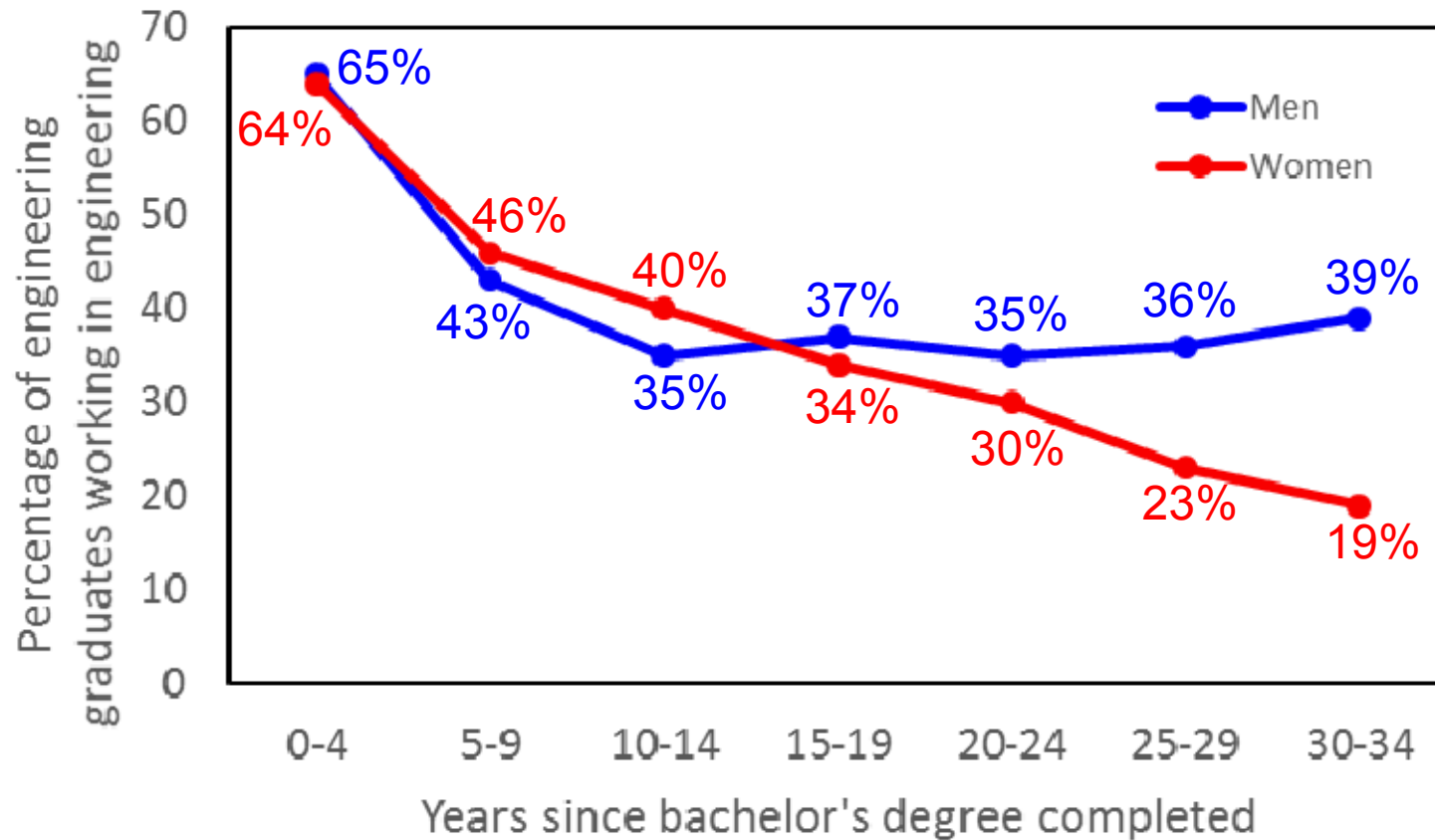


My Research



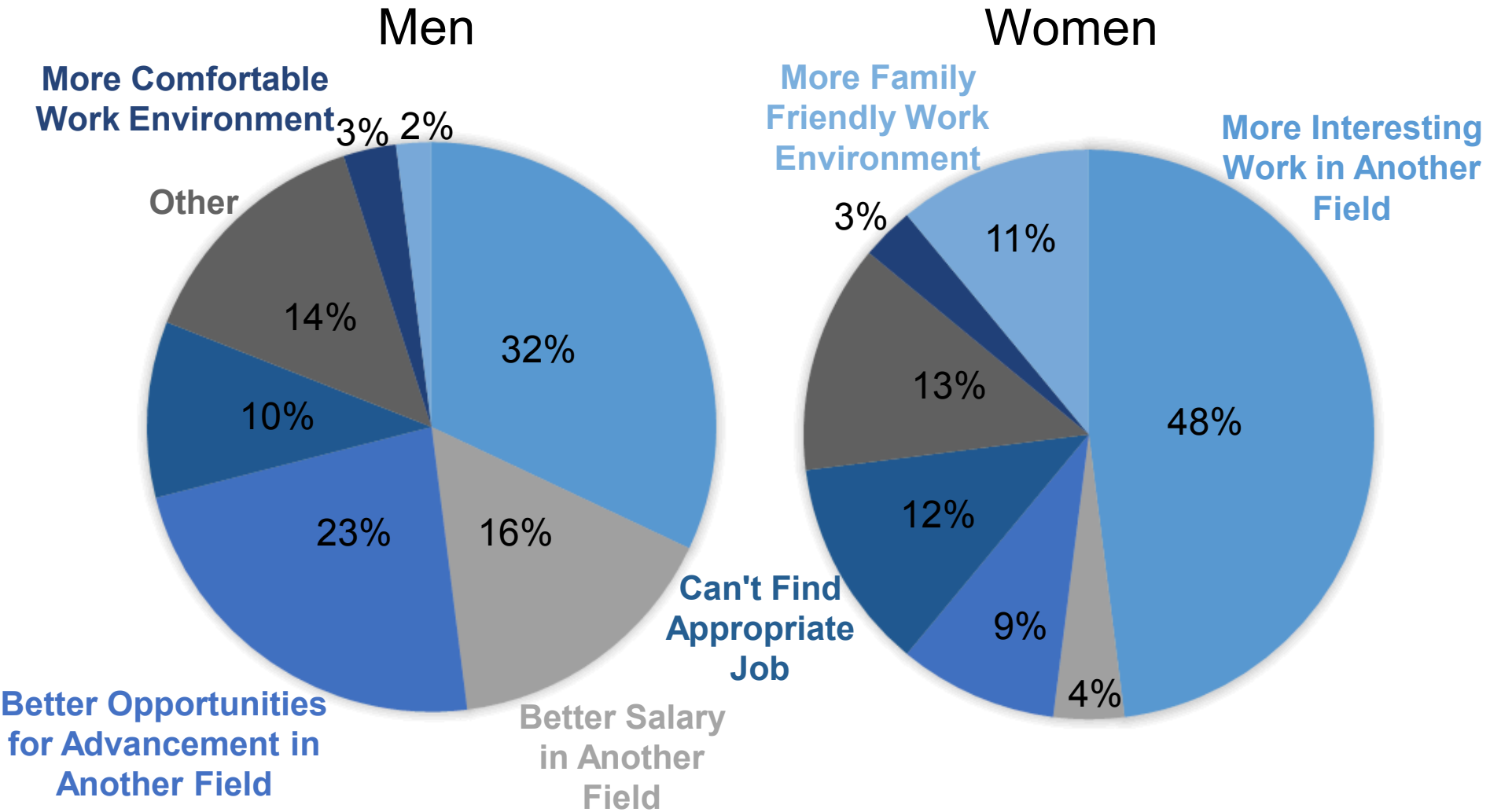
Not World Changing

Retention in Engineering, By Gender, 2010



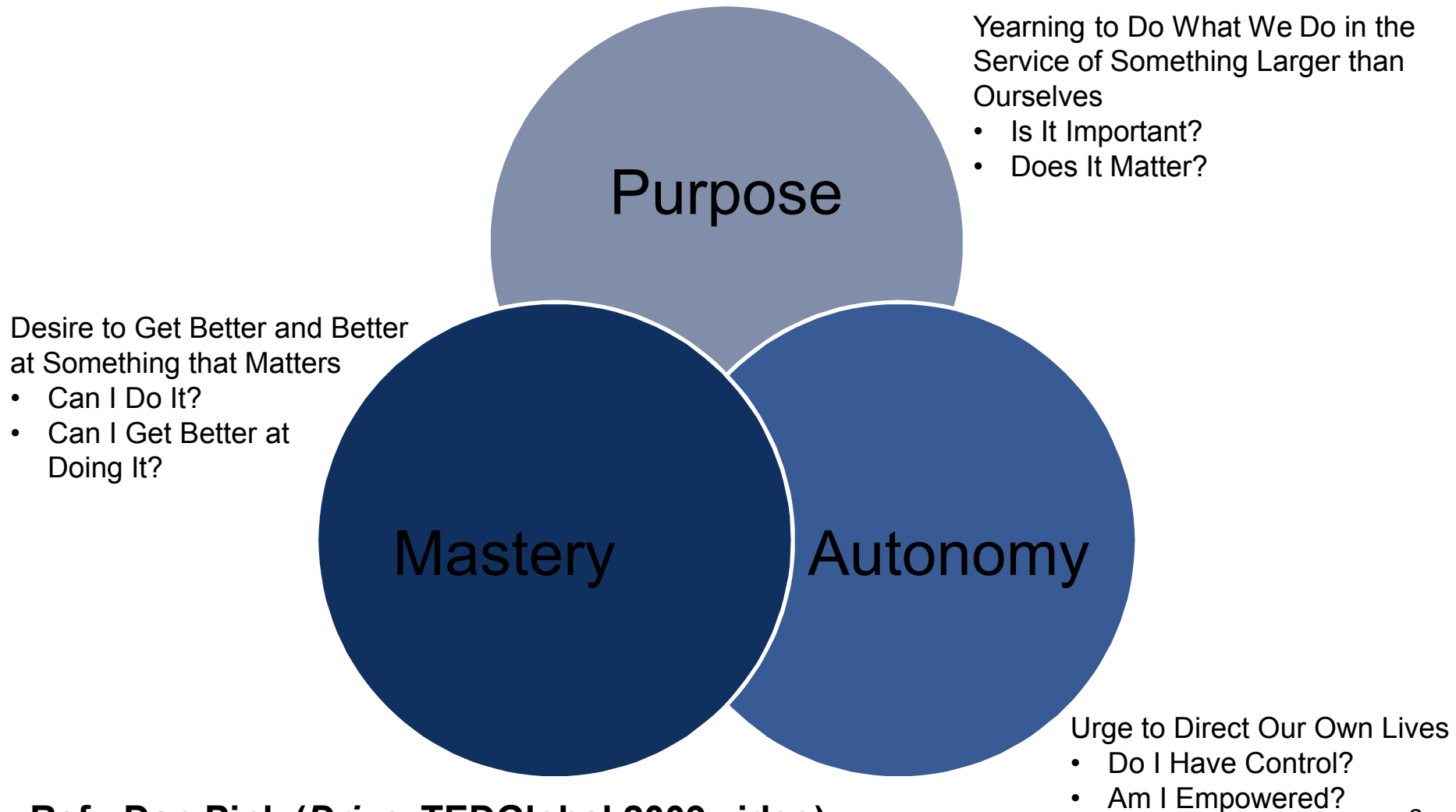
Corbett, C. and Hill, C., "Solving the Equation: The Variables for Women's Success in Engineering and Computing," AAUW, March 2015.

Among Those Employed and Not in Engineering, Why Are They in Non-Engineering Positions?



Frehill, L. "Satisfaction: Why Do People Give up Engineering? Surveys of Men and Women Engineers Tell an Unexpected Story," Mechanical Engineering, January 2010.

Purpose, Mastery, and Autonomy are Intrinsic Motivators



Ref: Dan Pink (*Drive*, TEDGlobal 2009 video)

The Thermal/Fluids Community Can

- Increase Perceived and Actual Social Relevance of Engineering
- Identify “World-Changing” Problems for Thermal/Fluids Research
- Provide Learning and Development Opportunities
- Cultivate a Sense of Belonging – Networking, Mentoring
- Create an Inclusive and Welcoming Environment

Picture of the Earth from Apollo 8



https://www.nasa.gov/multimedia/imagegallery/image_feature_1249.html