



Developing and Maintaining Relationships with Research:

Who, How, and Why?

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World Changers
Shaped Here



SMU®

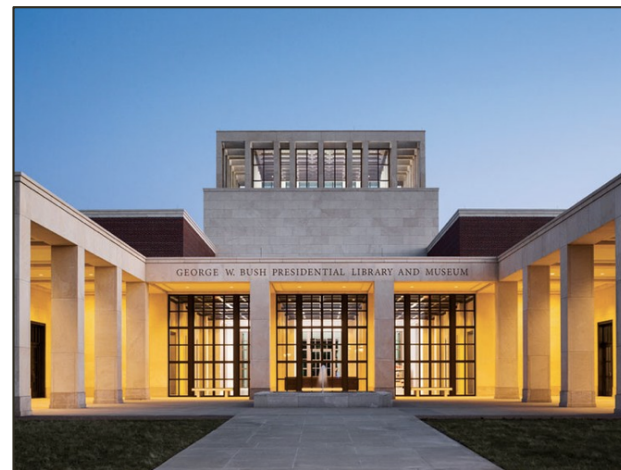
Agenda

- About Us
- What are Soft Skills?
- Who are the “Who”?
- How Do We Connect?
- Why Does it Matter?



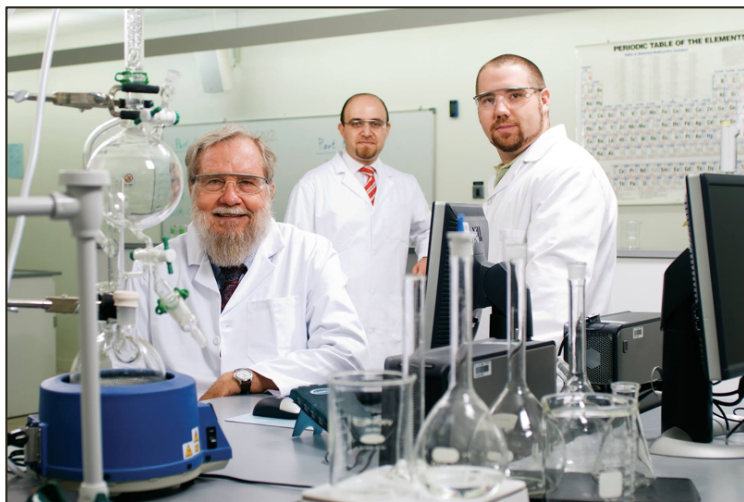
About Southern Methodist University

- Nationally ranked private university located in Dallas, Texas
- 11,700 Students, 2250 Employees
- Research
 - 70 Lab supervisors, 100 lab spaces
 - 250 Lab-based researchers
 - \$30 million in funding
- Three Campuses
 - Dallas and Plano, Texas
 - Taos, New Mexico
- George W. Bush Presidential Center
- Home of the Meadows Museum
- EHS = 3 FTEs



About Me

Bench Chemist, Lab Instructor, Lab Manager (2003-2008)



Environmental Health and Safety, Building Operations, Risk Management



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What Are Soft Skills?

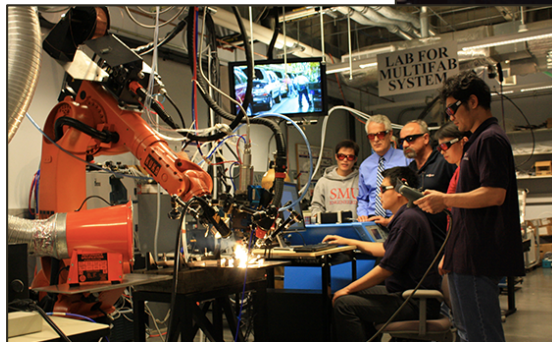
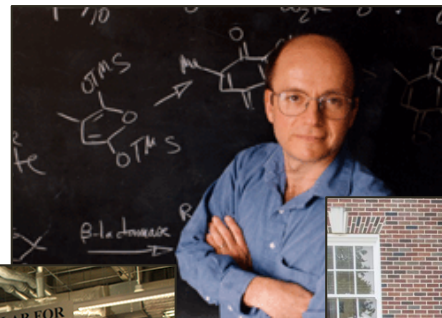
Soft skills are the personal character traits or qualities each of us has. They make up who we are, generally encompassing our attitudes, habits and how we interact with other people (www.thebalance.com).

- Commonly known as “People Skills” or “Interpersonal Skills”
- Examples include:
 - Communicating
 - Listening
 - Connecting with colleagues
 - Teamwork
 - Maintaining professionalism
 - Managing change
 - Problem solving



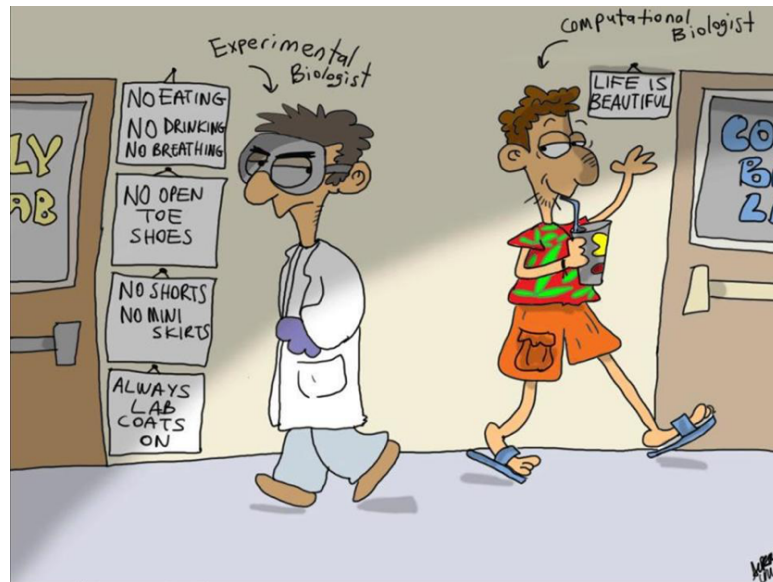
Who are the “Who”?

- The Suits, the “Top Down”
 - Dean for Research and Graduate Studies
 - College Deans
 - Vice President of Business and Finance
 - Associate Vice President of Facilities
 - Office of Legal Affairs
- The Business Casual
 - Faculty Members
 - Researchers
 - Project Managers



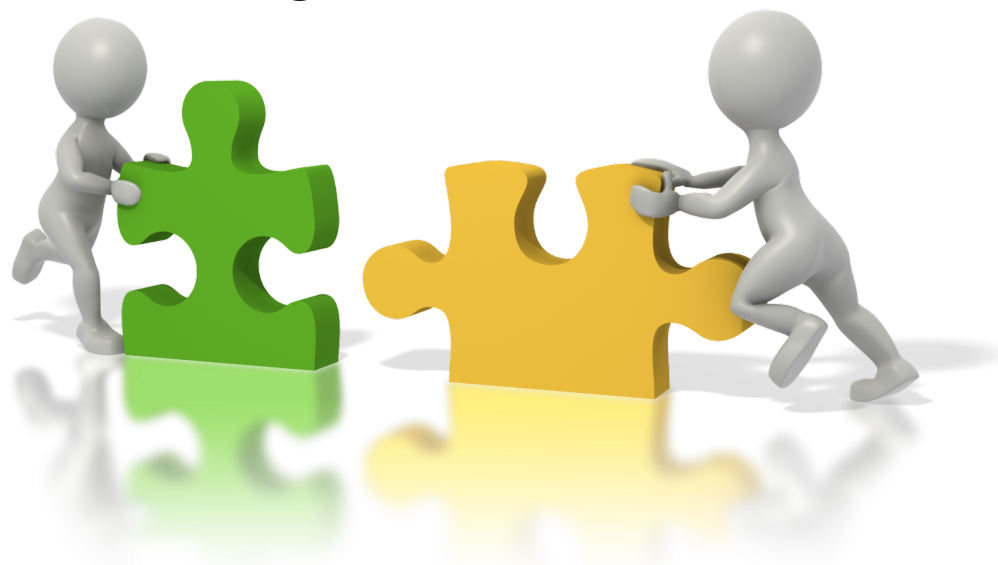
Top Down “Buy In”

- Knowing the decision makers’ backgrounds is EXTREMELY important.
 - Experimentalist or non-experimentalist
 - Science and Humanities Dean
 - Chemistry Department Chair
 - Associate Vice President is Chief Risk Officer
 - Vice President of Business and Finance is a CPA
- MUST tailor communication
 - Know what they are looking for
 - Speak their language
- How can you help them fulfill their goals?



How do We Connect?

- Research backgrounds of key decision makers and find commonalities
 - Examples
 - Dean for Research
 - Dean of Meadows School for the Arts
 - Dean of Dedman College of Humanities and Sciences

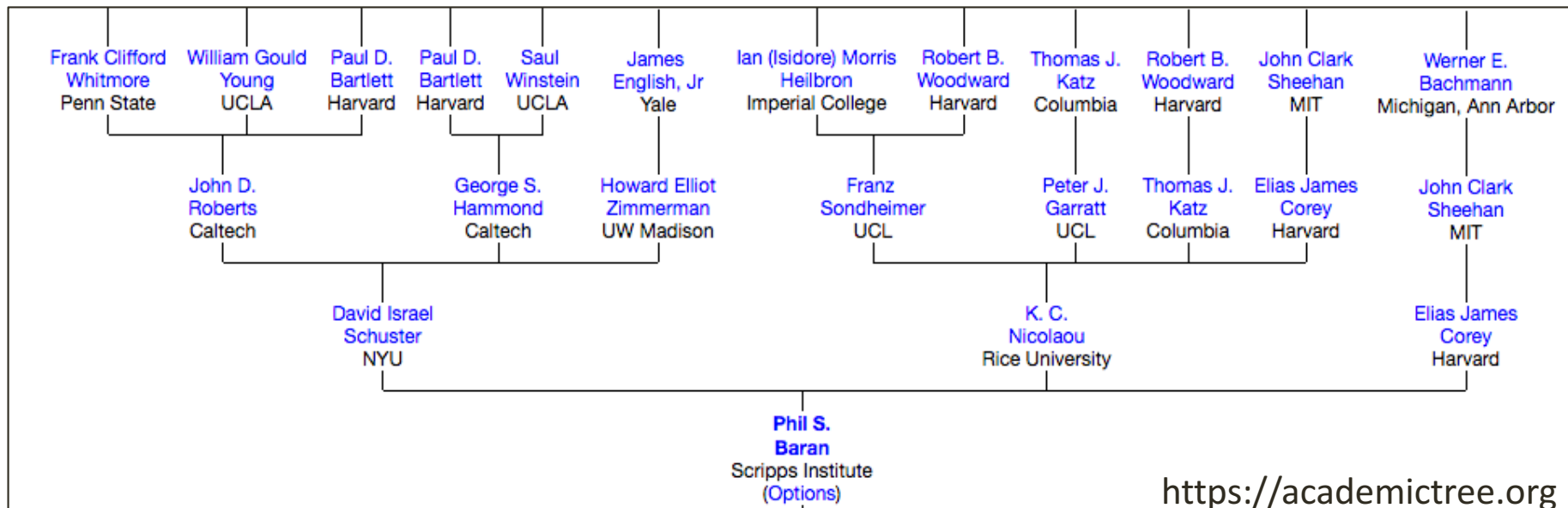
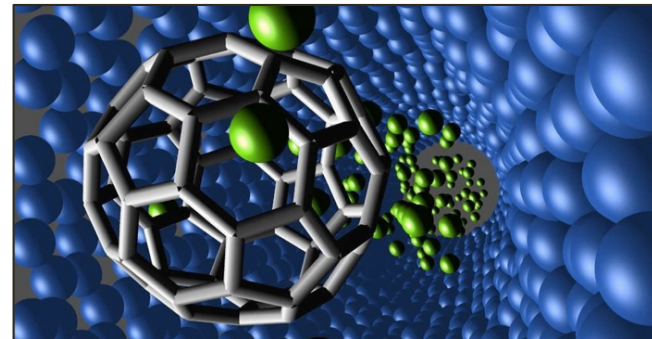


Audience Example

- You have been invited to meet with a department chair that could be a valuable asset. Here is his/her basic profile:
 - Academic Background (Chemistry)
 - BA from Williams College (1976)
 - PhD from Columbia (K. Nakanishi - 1981)
 - Post Doc at UCSF (G. Kenyon 1981-1983)
 - Previously spent time at Penn State and UMass - Amherst
 - Recent Publications
 - The Chemical Story of Olive Oil: From Grove to Table (2017)
 - Making Sense of Olive Oil: Simple Experiments To Connect Sensory Observations with the Underlying Chemistry (2014)
 - Spent time in France and Turkey
- What do you lead with?

Connect with Faculty

- Research backgrounds of key decision makers and find commonalities
- For Faculty
 - KNOW their research interests
 - KNOW their pedigree



<https://academictree.org>

Faculty Examples - Pedigrees

- Dr. Patty Wisian-Neilson (Chemistry)
 - TLC (TLU) graduate - 1971
 - PhD – Univ. of Texas

We shared the same Organic Professor (her in his 2nd year, me in his last)

- Dr. Nick Tsarevsky (Chemistry)
 - PhD – Carnegie Mellon (Krzysztof Matyjaszewski)

I hosted his PI in Qatar in 2008

- Dr. Ali Beskok (Mechanical Engineering Chair)
 - MSE and PhD – Princeton University
 - Professor in Texas A&M Mechanical Engineering Dept. 1998-2006

Princeton link and TAMU link (Dr. Beskok recruited and hired my outside committee member)

Be an Active Listener

- Research backgrounds of key decision makers and find commonalities
 - Dean and Chairs
 - Faculty
- **LISTEN**
 - These meetings are not about you – it is about them
 - How do they feel about safety?
 - What are their biggest concerns?
 - How can you help?
 - DO NOT overcommit



Who are the Good Guys?

- Identify your people resources
 - Who are your “go to” people in each department to affect change?
 - May not be a Dean or Department Chair
 - Don’t rule out Junior Faculty
 - Identify Student Leaders
 - Who are going to need some “extra convincing”?
- Identify Opportunities!
 - For Funding
 - For Outreach
 - For Face Time



Outreach and Face Time

- Opportunities for interaction with with researchers

- National Meetings

- Research Talks
- Poster Sessions
- Social Events

- Internal Research Presentations

- Research Days
- Thesis/Dissertation Defenses

254th American Chemical Society
National Meeting & Exposition
August 20-24, 2017 • Washington, DC

Chemistry's Impact on the
Global Economy



Cornell Undergrad Research Forum

UCDAVIS

DEPARTMENT OF CHEMISTRY

**2017 Richard Larock
Undergraduate
Research Conference**



David Son @SonChemistry · May 17

My student Zahra passed her Ph.D. defense this afternoon. She did a great job - very proud of her! @SMU_Chemistry @SMUDedman

2017 Fall ACS



BIOL 161: Biochemical and structural analysis of a novel toxin-antitoxin module

8:00pm-10:00pm Aug 21

PHYS 545: Molecular spectroscopy of exo-

8:00am-8:35am Aug 24

MED

Discovery of potent dimeric antagonists

PHYS 171: Thermodynamics and kinetics of nano-scale drying transitions

3:30pm-4:00pm Aug 21

8:00pm-2:30pm Aug 24

PHYS 231: O

Condensed density matrices

COMP 71: Local correlation in molecules and condensed matter: Methods and applications

11:05am-11:40am Aug 21

11:00pm-10:00pm Aug 21

INOR 157: Mechanistic insights into heme-protein carbenoid chemistry using stopped flow spectroscopy

5:30pm-7:30pm Aug 20

INOR 157: Mechanistic insights into heme-protein carbenoid chemistry using stopped flow spectroscopy

8:00pm-10:00pm Aug 21

MED 248: Discovery of potent and orally bioavailable macrocyclic FXR inhibitors

Pablo Debenedetti

Adam Buehler

Emily Carter

Hongxin Gao

23 ★

William Witt

23 ★

William Witt

23 ★

Christin Monroe

23 ★

Christin Monroe

23 ★

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2017 Fall ACS



ORGN 177: Rh-catalyzed intramolecular C-H insertion reactions: Important considerations for controlling side products

5:30pm-7:30pm Aug 20

23 ★



Stephanie Hare

ORGN 177: Rh-catalyzed intramolecular C-H insertion reactions: Important considerations for controlling side products

8:00pm-10:00pm Aug 21

23 ★



Stephanie Hare

CATL 379: Multimodal x-ray characterization of solar fuels catalysts under operation

9:00am-9:30am Aug 23

23 ★



Walter Drisdell

POLY 12: Bio-based starting materials as an essential route to improved performance in macromolecules

8:55am-9:20am Aug 20

23 ★



Andrew Guenther

POLY 521: Improving the Processing Characteristics of Cyanate Ester Monomers for Production of Spacecraft Structures

6:00pm-8:00pm Aug 22

23 ★



Andrew Guenther

COMP 76: Extending the accuracy and scale of first-principles molecular dynamics simulations

3:45pm-4:15pm Aug 21

23 ★



Francois Gygi

INOR 731: Synthesis and characterization of homoleptic copper (I) thiolate complexes

10:50am-11:10am Aug 23

23 ★



Jade Pratt

AEI 50: Synthesis and characterization of homoleptic copper (I) thiolate complexes

8:00pm-10:00pm Aug 21

23 ★



Jade Pratt

2017 Fall Acs



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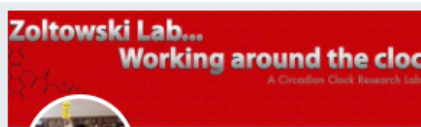
Presentation	MEDI 328: New carbapenem antibiotics with activity against Mycobacterium tuberculosis and Mycobacterium abscessus	23 ★
	8:00pm-10:00pm Aug 21	Maha Alqurafi
Presentation	POLY 373: Utilizing hypervalent iodine compounds in the synthesis of branched polymers	23 ★
	3:40pm-4:00pm Aug 22	Rajesh Kumar
Presentation	PMSE 49: Poly(alkyl/arylphosphazenes)	23 ★
	10:25am-10:55am Aug 20	Patty Wisian-Neilson
Presentation	PMSE 453: Modification of poly(alkyl/arylphosphazenes) to attach potentially bioactive groups	23 ★
	6:00pm-8:00pm Aug 22	Edward Hauptmann, Mojdeh Raeisi, Mackenzie Young
Presentation	PMSE 68: Dynamic and self-healing polymers containing hypervalent iodine(III) and bismuth(V) atoms as structural elements	23 ★
	1:00pm-1:30pm Aug 20	Nicolay Tsarevsky
Presentation	POLY 261: Reversible deactivation radical polymerization (RDRP) of monomers bearing reactive functional groups: Possibilities and limitations	23 ★
	11:35am-12:00pm Aug 22	Nicolay Tsarevsky
Presentation	PMSE 540: Preparation of dynamic and self-healing gels via ligand-exchange reactions involving hypervalent iodine(III) compounds	23 ★
	8:50am-9:10am Aug 23	Avichal Vaish
Presentation	INOR 493: Development of copper catalysts for the selective oxidation of C-H bonds under mild conditions	23 ★
	2:05pm-2:35pm Aug 22	Isaac Garcia-Bosch
Presentation	HIST 2: Iodine and its fascinating history	23 ★
	2:30pm-3:00pm Aug 20	Nicolay Tsarevsky

More Outreach and Face Time

- Opportunities for interaction with with researchers
 - Program and Project Unveilings
 - Award Receptions
 - Lab/Institute/Special Project Unveilings



- Social Media
 - Follow your research office, your departments, and your labs/researchers
 - Interact with them



Following

Zoltowski Lab

@zoltlab Follows you

Physical biochemistry lab focusing on the structure and role of photoreceptor proteins in plant and mammalian systems. FAD chemistry is our friend.



Following

Dr. Patty Lab Group

@polyphosphazene

We put the alkyl/aryl in alkyl/aryl polyphosphazenes



Following

Lippert Lab

@lippertlab Follows you

SMU's premier chemical imaging lab. Staining the floors of Fondren science pink since 2012.



Following

Shreya Patel

@patelshreya121 Follows you



Following

SMU Dedman College

@SMUDedman

Official Twitter account of SMU Dedman College of Humanities and Sciences. #DedmanCollege / Facebook: facebook.com/smudedman



Following

SMU RLSH

@SmuRlsh

Twitter page for Residence Life and Student Housing at #SMU | We want to hear from you! Tweet us, email housing@smu.edu, or call (214)...



Following

SMU Physics

@SMUPhysics

The department of #physics at @SMU.



Following

David Son

@SonChemistry Follows you

News from Professor David Son @SMU; organosilicon and thiol chemist, teaching technology; Faculty-in-Residence (FiR) @boazcommons

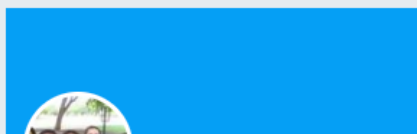


Following

SMU ES

@SMUenviro

SMU Environmental Society. Love global, live local. The organization for #students interested in #sustainability at #SouthernMethodistUniversity



Following

Tao Research Group

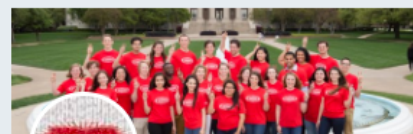
@TaoGroupSMU



Following

Student Foundation

@SMU_SF



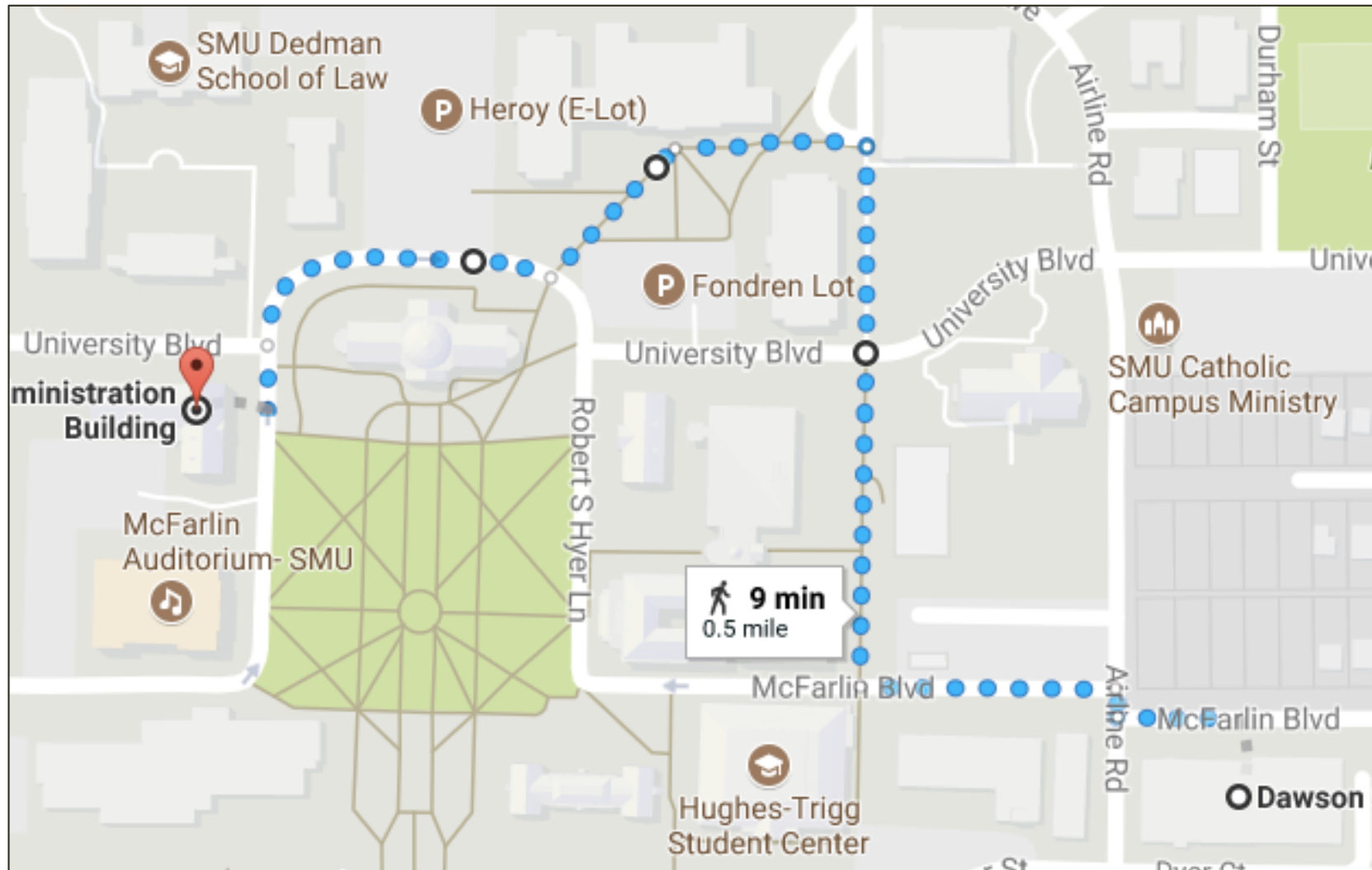
Following

SMU Engaged Learning

@SMUMakeYourMark

More Outreach and Face Time

- Build in time to take walks



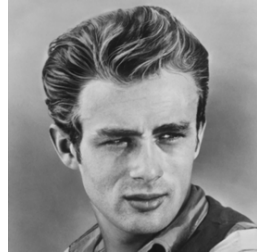
Why Does it Matter?

- LISTENING and CONNECTING with colleagues
- We are more prepared and better able to COMMUNICATE
- TEAMWORK to accomplish shared goals
- With the above in place, now we can more effectively MANAGE CHANGE and SOLVE PROBLEMS

Ultimate goal of ensuring that everyone goes home SAFELY

Rewind

- The Who



- The How



- The Why



Attitude

“Doesn't matter if the glass is half-empty or half-full. All that matters is that you are the one pouring the water.”

Mark Cuban

