

2018 SPE-GCS Awards and Scholarships Banquet
| 24 May 2018 | Houston Engineering and Scientific Society (HESS) Club |
| 5430 Westheimer | Houston, TX 77056 (USA) |

Making the SPE Relevant to Your Career — Technical Contributions, Service, Networking, and Career-Long Learning

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Start-Up — Things to Think About

(according to the Internet) ... there is no word for:

- ... "No" in Japanese
- ... "Individualism" in Chinese
- ... "Coincidence" in Hebrew
- ... "Compromise" in Spanish
- ... "Entrepreneur" in French
- ... "Embarrassment" in Dutch
- ... "Volunteer" in Russian

(per George W. Bush)



Anti-Intellectualism ... "my ignorance is just as good as your knowledge."

— Isaac Asimov

Why Volunteer in SPE?

- **Technical Contributions:**
 - **Write a paper ...** (<http://www.spe.org/authors/resources/prepare-paper.php>)
 - **Give a webinar ...** (<https://webevents.spe.org/>)
 - **Serve on a technical program committee ...**
- **Service:**
 - **Plenty of service opportunities within your section or SPEi ...**
 - **Petrobowl, Student Presentation Contest, YP-events, etc. ...**
 - **Volunteer for the worst roles(s)/job(s) out there ...**
- **Networking:**
 - **Section meetings ...** (<https://www.spegcs.org/events/search/>)
 - **Conferences, workshops, etc. ...** (<http://www.spe.org/events/calendar/>)
 - **Other ... (golf, sporting clays, etc.)** (<https://www.spegcs.org/events/month/>)
- **Career-Long Learnings:**
 - **SPE publications ...** (<http://www.spe.org/publications/>)
 - **SPE short courses ...** (<http://www.spe.org/training/courses.php>)
 - **SPE certification program ...** (<http://www.spe.org/training/certification.php>)

If you can't find something to do, contact me (t-biasingame@tamu.edu) — I will find something for you to do ...

—Tom Blasingame

What Do You Get from Your SPE Service?

The Road Not Taken
by ROBERT FROST

Two roads diverged in a yellow wood,
And sorry I could not travel both
And be one traveler, long I stood
And looked down one as far as I could
To where it bent in the undergrowth;

Then took the other, as just as fair,
And having perhaps the better claim,
Because it was grassy and wanted wear;
Though as for that the passing there
Had worn them really about the same,

And both that morning equally lay
In leaves no step had trodden black.
Oh, I kept the first for another day!
Yet knowing how way leads on to way,
I doubted if I should ever come back.

I shall be telling this with a sigh
Somewhere ages and ages hence:
**Two roads diverged in a wood, and I —
I took the one less traveled by,
And that has made all the difference.**



When Should You Get Started?

... if everyone is thinking alike, then somebody isn't thinking.

— George S. Patton

... leadership and learning are indispensable to each other.

— John F. Kennedy

... the time is always right to do what is right.

— Martin Luther King, Jr.

... education is a weapon whose effects depend on who holds it in his hands and at whom it is aimed.

— Joseph Stalin

... in time of difficulties, we must not lose sight of our achievements.

— Mao Zedong

... dreams move on if you wait too long ...

— Billy Ray Cyrus

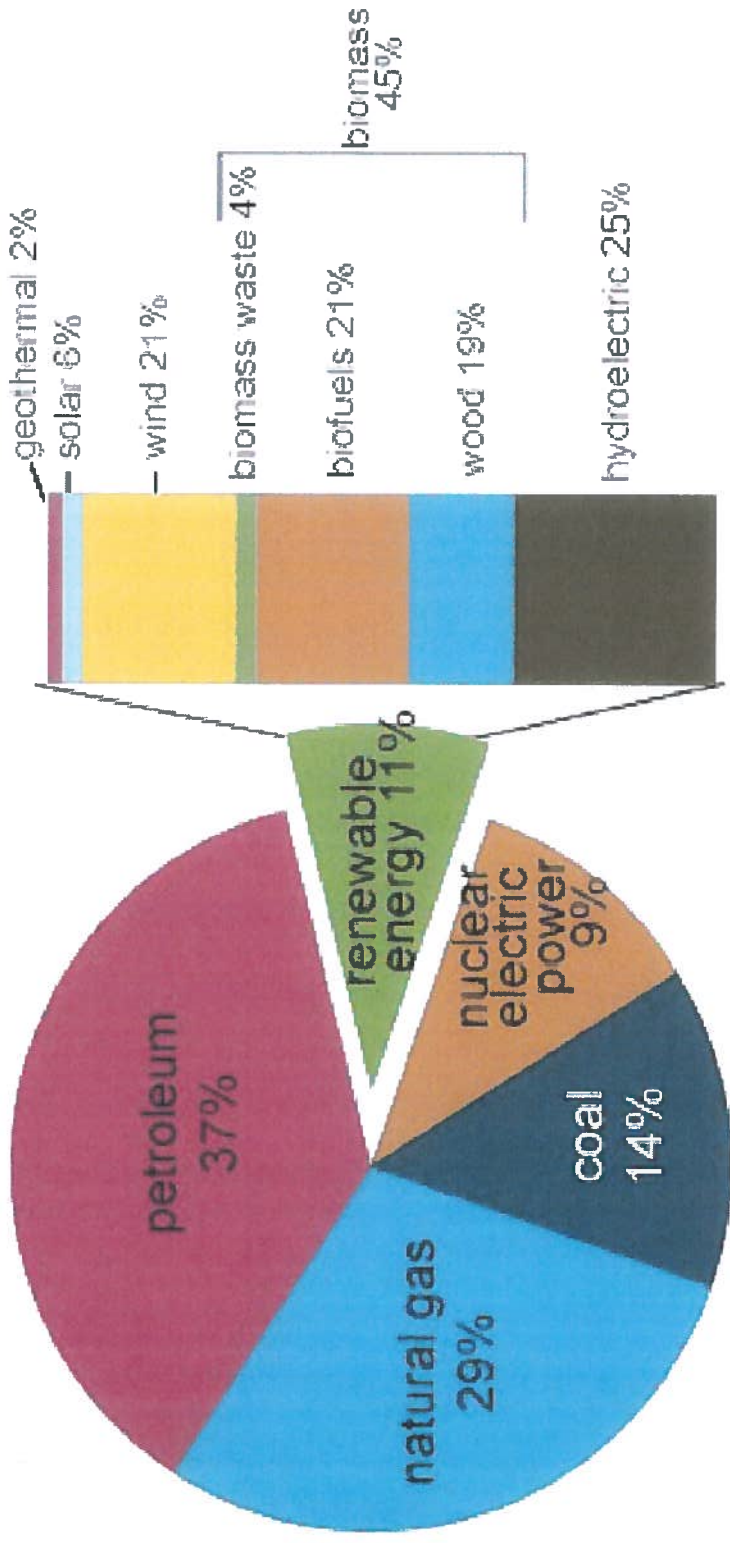
Why is What We do Important?

U.S. energy consumption by energy source, 2017

Total = 97.7 quadrillion

British thermal units (Btu)

Total = 11.0 quadrillion Btu



Note: Sum of components may not equal 100% because of independent rounding.
Source: U.S. Energy Information Administration, *Monthly Energy Review*, Table 1.3 and 10.1, April 2018, preliminary data



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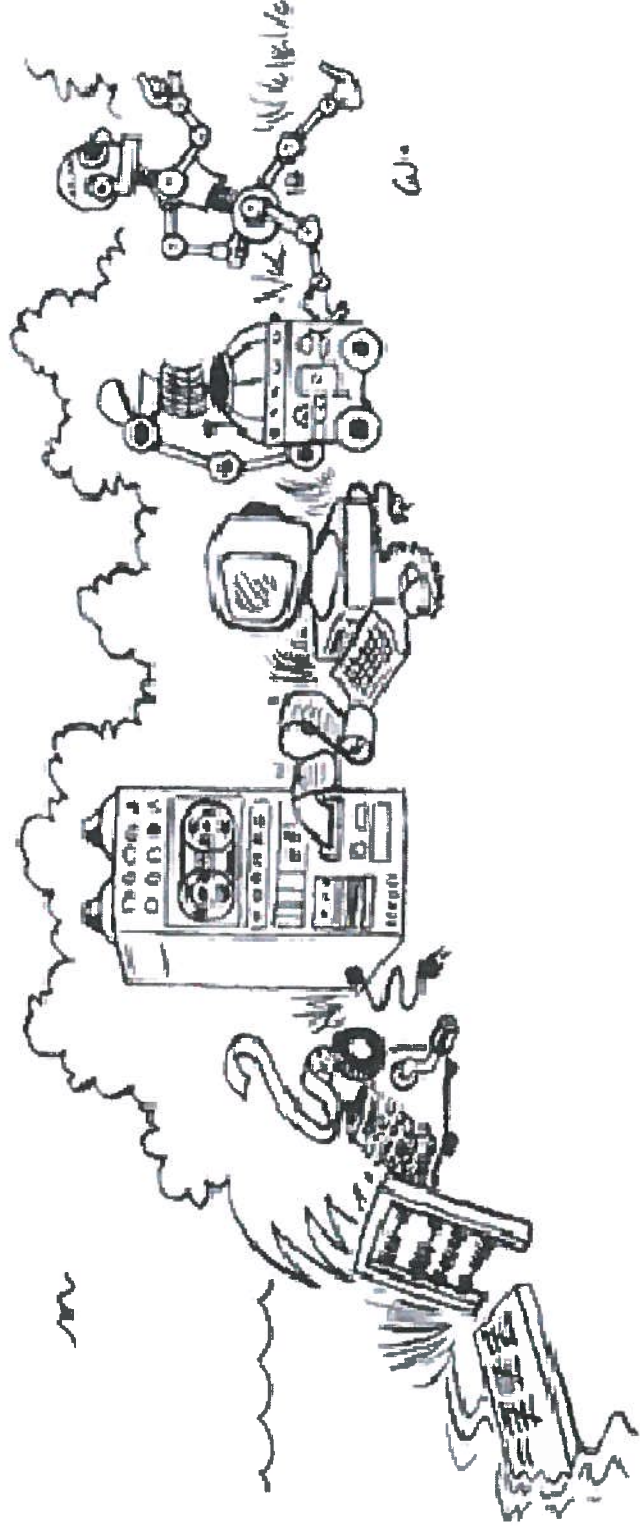
My Personal Story with SPE

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How Did I Get Started with SPE?

SPE Career Path: Tom Blasingame

- Began writing papers in 1986, ≈ 150 articles to date.
- Began my "service career" with SPE in 1991.
- Became "obsessed" with SPE service in the early 2000's.
- Chaired "lots" of ATW's in mid-late 2000's.
- SPE Distinguished Lecturer 2005-2006.
- Chaired all US and Australia unconventional conferences.
- Chaired LACPEC 3 times (and again in 2019).
- SPE Board (TD-Reservoir) 2015-2018.



SPE Service as a Career Enabler

SPE Service as a Career Enabler: Tom Blasingame

- Every time I serve, I branch-out into a new area.
- (e.g., LACPEC) ... "point-of-contact" for Latin America.
- (e.g., Australia) ... "point-of-contact" for Australia.
- SPE Distinguished Lecture (2005-2007) service changed my life.
 - Learned to travel with just a laptop and a toothbrush.
 - Provided exposure to members I never would have met.
 - Taught me that our members need a sense of community.
- My most rewarding SPE service — seeing YP's evolve.
- SPE service gives me a sense of responsibility for the discipline.
- SPE helped me redefine my goals & focus on "service to others."



Self-Assessment with Regard to SPE Service?

What I do best...

- Never say no to a volunteer ...
- Deal best with people face-to-face ...
- Managing groups/committees ...
- Mentoring young engineers ...

What my SPE service has taught me

- To try to engage enthusiastically ...
- To focus on deliverables ...
- To travel light, fast, & hard ...

Room for improvement

- I tend to delay the important for the urgent ...
- I tend to focus on individuals rather than issues ...
- I love a good problem to solve (to the exclusion of other tasks) ...
- I am a lousy teacher, but a great coach/motivator/taskmaster ...



Secrets to Success in SPE Service

Workflow:

- ... Listen (*watch what others do — how & why they do it*)
- ... Learn (*get to know the role and its tasks*)
- ... Lead (*take command, use what you have learned*)

Wisdom:

- ... Never say no to an opportunity.
- ... Never judge the motives of others.
- ... If you see a need, fill it — don't wait to be asked.
- ... Be inclusive, don't just engage with people you like.
- ... Remember that there is someone who wants your job.
- ... Elevate others; always and often.



It is amazing what you can accomplish if you do not care who gets the credit.

— Harry S. Truman

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Being a Petroleum Engineer ...

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A Career of Perspectives on Petroleum Engineering

Being a Petroleum Engineer, you will:

- Get up earlier, stay up later ...
- Make decisions with sparse data ...
- Do your job well regardless of price ...

Petroleum Engineers don't like:

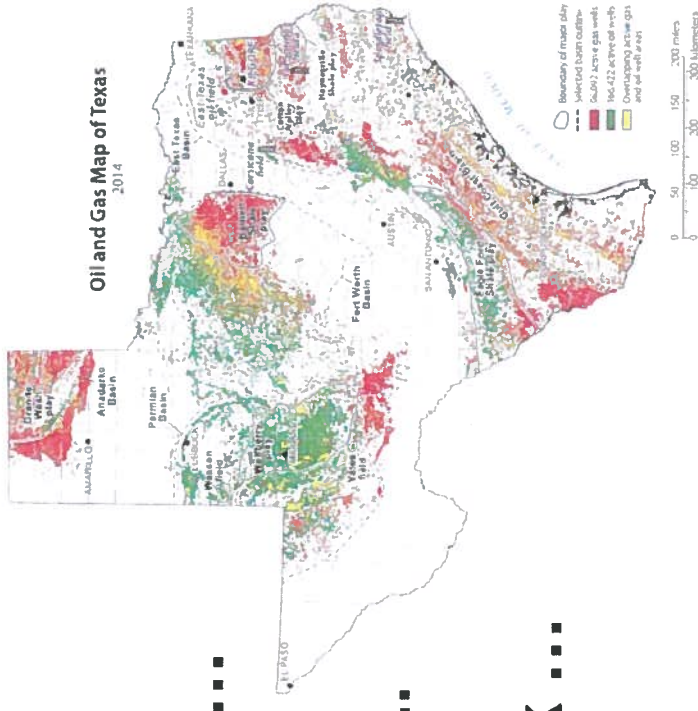
- Spending all their time in the office ...
- Routine tasks ...
- People who don't do their homework ...

Dirty little secrets:

- We really do love Geoscience ...
- We are devout environmentalists ...
- We care more about people and safety than believed ...

Bottom-line:

- Education and training will only take you so far ...
- You have to want to be a Petroleum Engineer ...



Parting Thoughts on Life

Habits that will cause sleep loss and weight gain:

- Take good notes, and share with others ASAP ...
- Answer your all of your email before you go to sleep ...
- Never say no to an opportunity to serve others ...

Risk versus reward:

- You will only remember the trials you *did not* attempt ...
- The secret to success is the willingness to fail ...
- People are always worth the risk ...

Sounds (a lot) easier than it is:

- Engage with people who don't agree with you ...
- Try to be creative, if you can't be, then act like you are ...
- "Innovation" is seeing something others don't ...

Last thoughts:

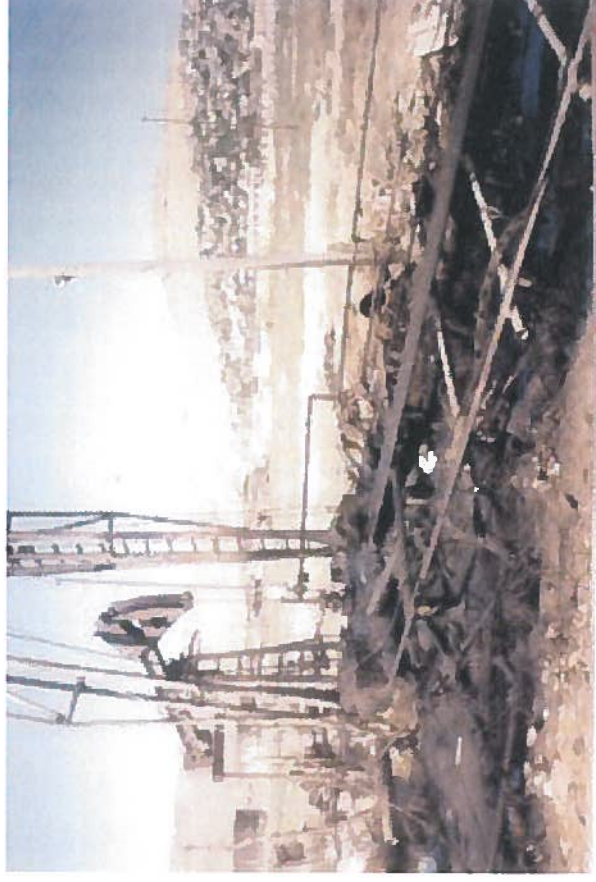
- People habitually underestimate their potential ...
- Give others the credit, they probably deserve it ...
- You (and your behavior) are an example to others ...

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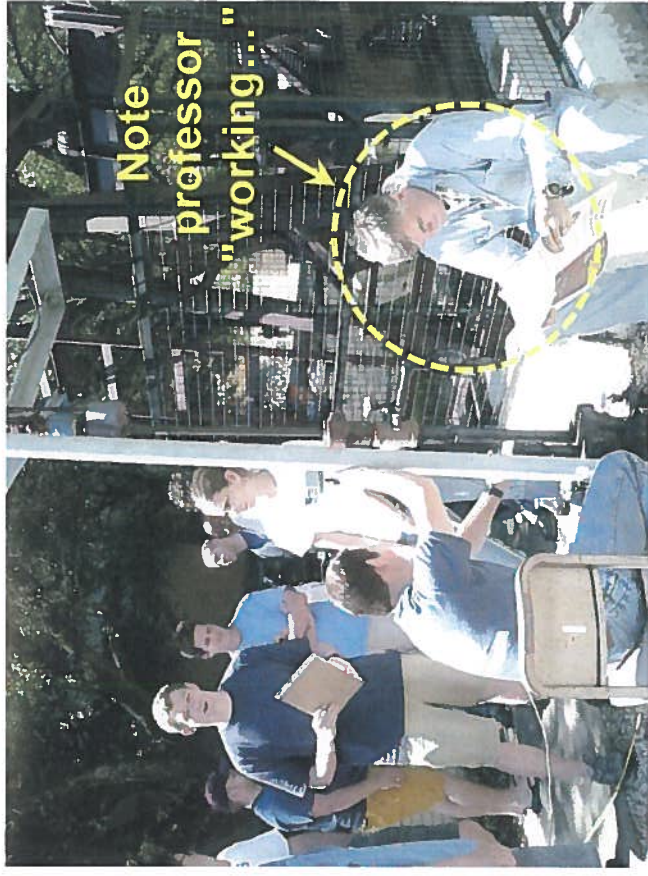
A few good photos ...

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Baku, AZERBAIJAN (1994)



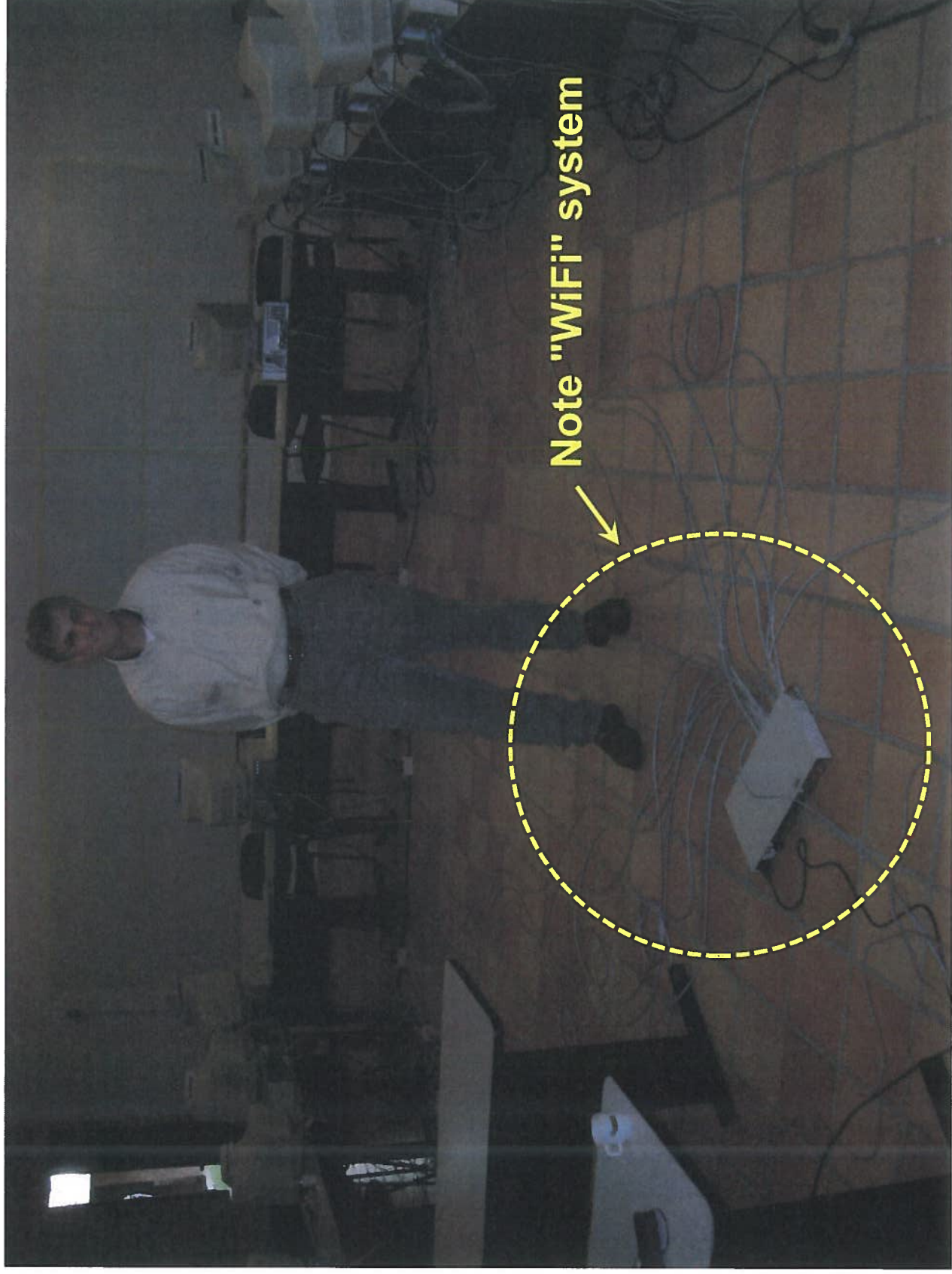
Well Testing Class — Texas A&M (2003)



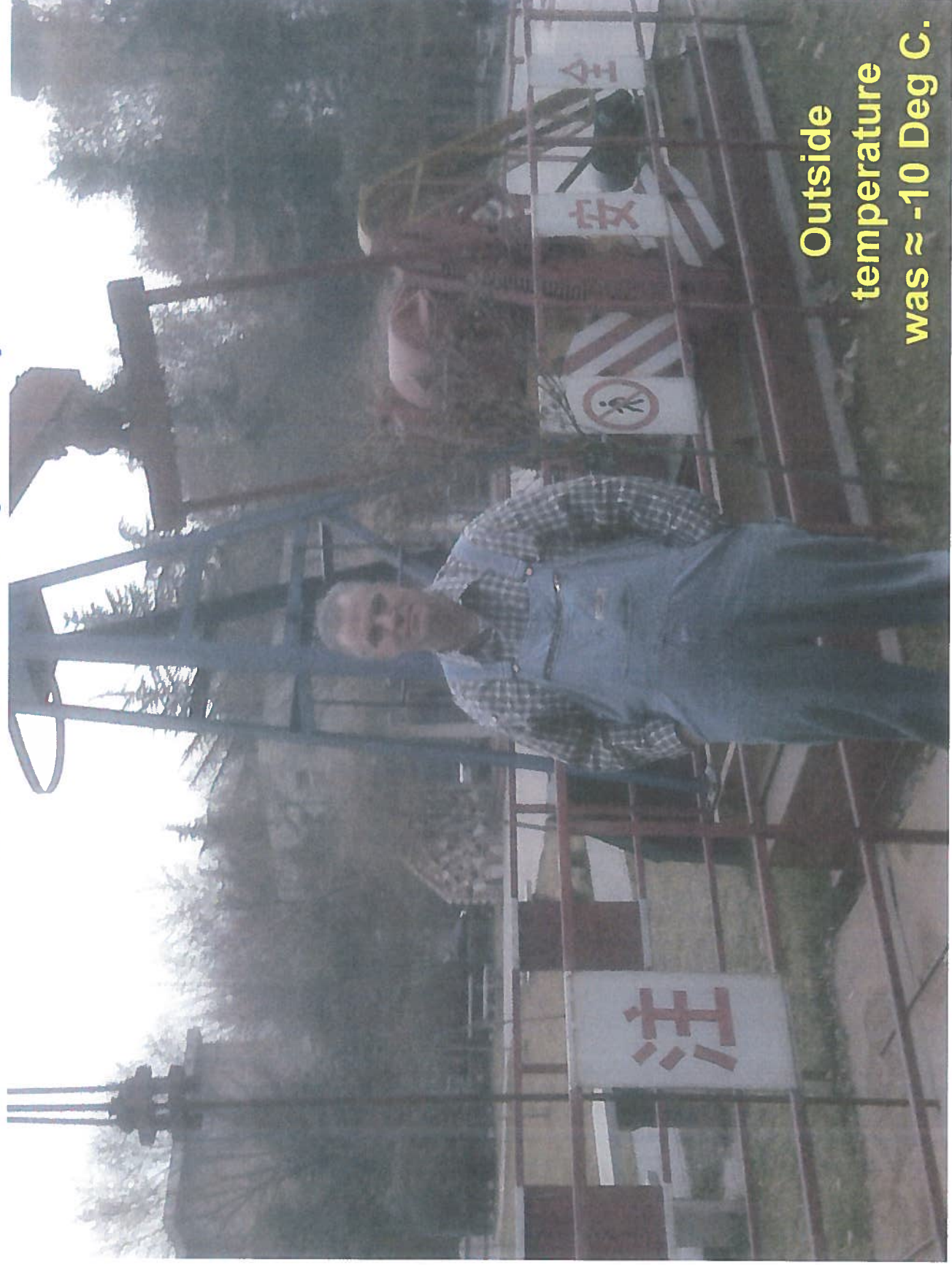
Lima, PERU (2004)



Bucharamanga, COLOMBIA (2006)

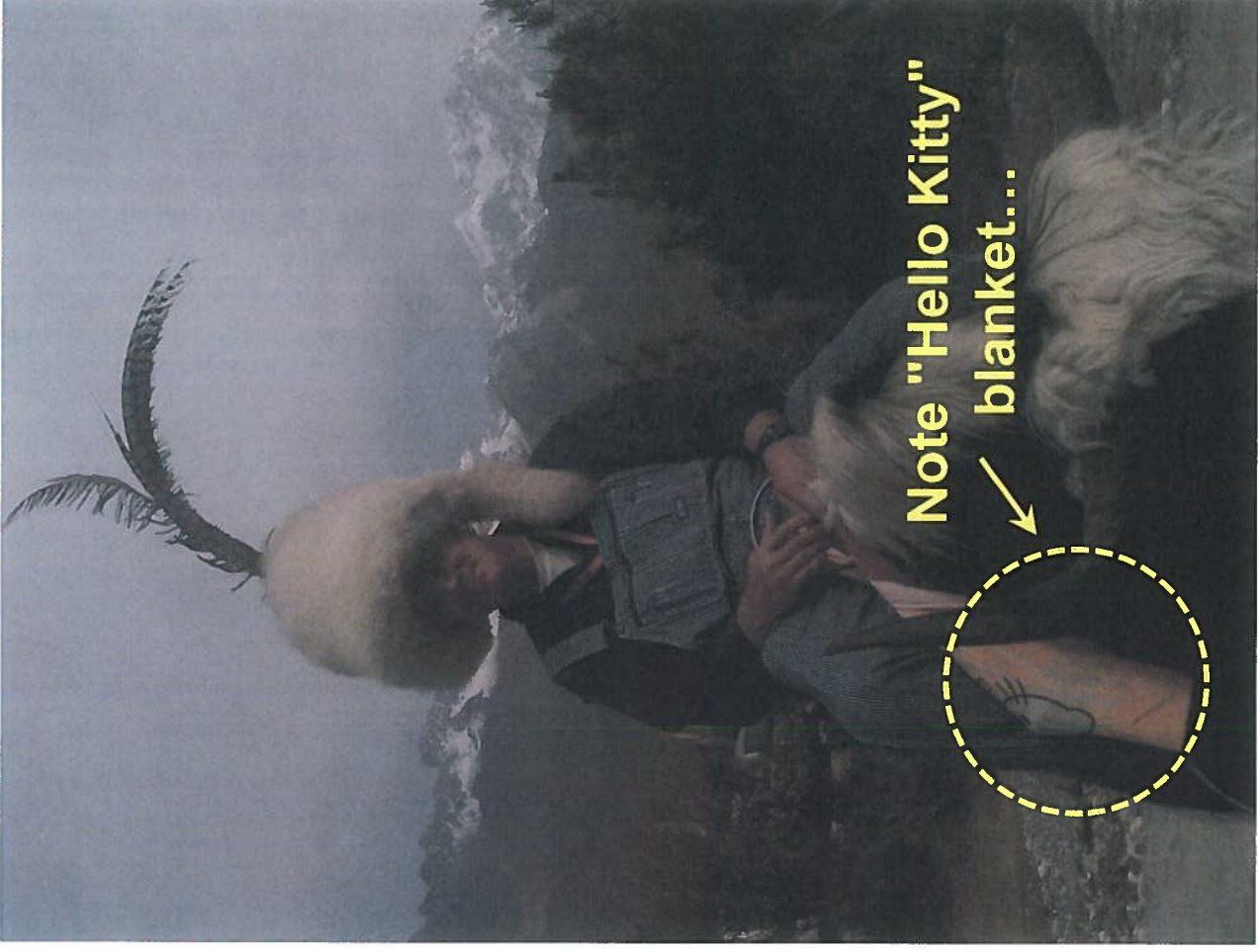


Xian, CHINA (2008)

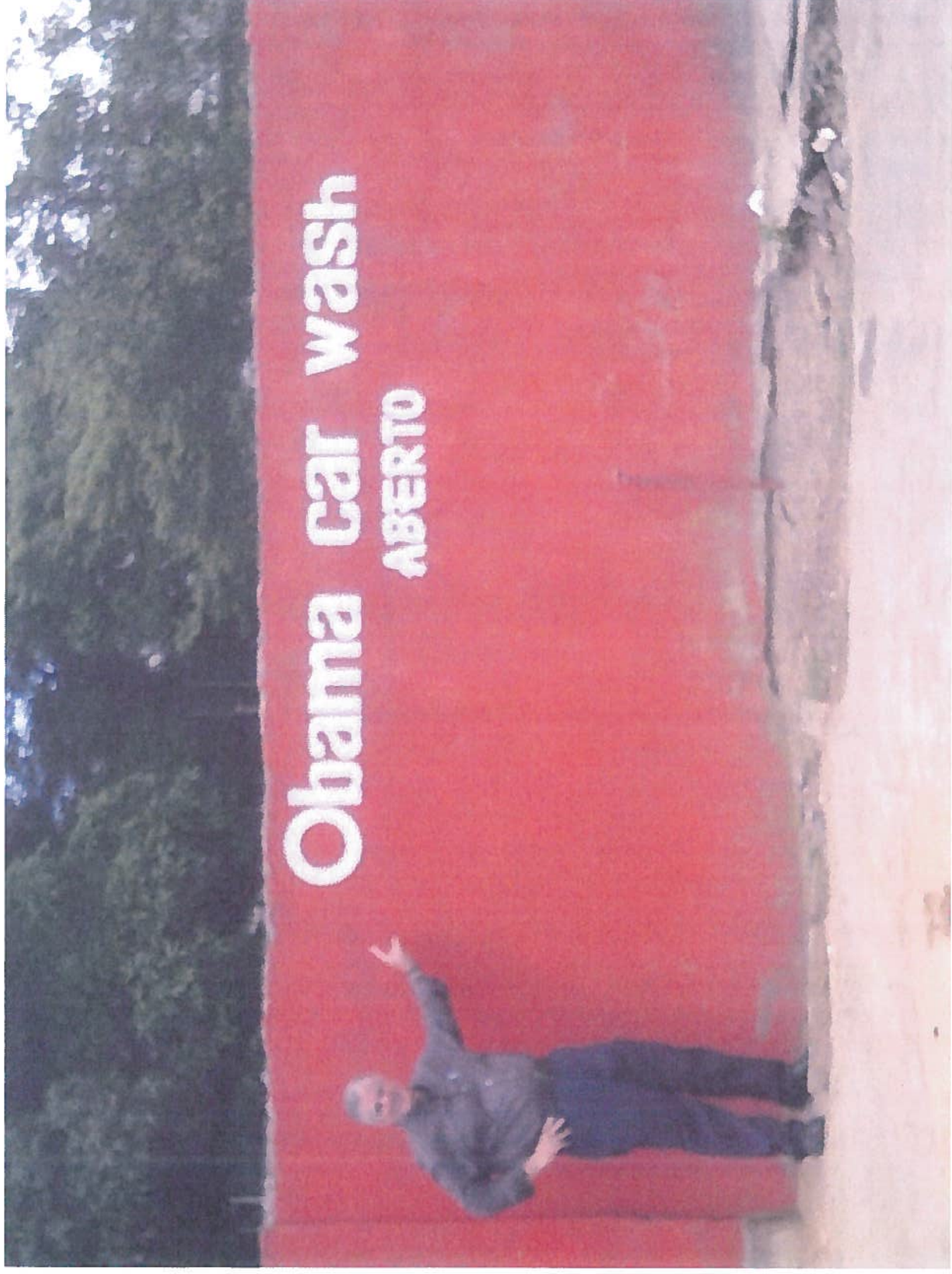


Outside
temperature
was ≈ -10 Deg C.

Lijiang, CHINA (2009)



Maputo, MOZAMBIQUE (2012)



Upshur County, Texas, USA (2012)



Note name of well,
T.A. Blasingame #1
(family heirship).

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End of Presentation

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Making the SPE Relevant to Your Career
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Biography/Research Portfolio
— Tom Blasingame

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Brief Biography: Tom Blasingame

- **Role:**
 - Professor, Texas A&M U.
 - B.S., M.S., & Ph.D. from Texas A&M U.
- **Counts: (May 2018)**
 - 13 Ph.D. Graduates
 - 66 M.S. (thesis)/34 M.Eng. (report) Graduates
 - Over 150 Technical Articles
- **Historical Technical Contributions:**
 - (1990's) Material Balance DCA ("Rate Transient Analysis" (or RTA)) [global standard]
 - (1990's) Analysis of Water-Oil-Ratio (WOR) Behavior [theoretical approach]
 - (1990's) Direct Estimation of p_{avg} from Pressure Buildup Tests [theoretical approaches]
 - (2000's) Pressure Integral and "Beta" Derivative [led to PTA and RTA methodologies]
 - (2000's) DCA and CEUR Relations for Unconventional Reservoirs [evolving standards]
 - (2010's) Diagnostic Analysis of Time-Rate Data (*i.e.*, the qDb -plot) [evolving standards]
 - (career) Correlations for Rock and Fluid Properties [ρ_g & μ_g are global standards]
 - (career) Deconvolution Methods (approximate, direct, and numerical) [several methods]
- **Historical Professional Recognition:**
 - SPEi Uren Award (2006) ■ SPEi Distinguished Faculty Award (2014)
 - SPEi Lucas Medal (2012) ■ SPEi Honorary Member (2015)
 - SPEi DeGolyer Service Medal (2013) ■ SPEi Director (Reservoir) (2015-2018)
- **Research Interests: (2018)**
 - Time-Rate Analysis (Models & Diagnostics) [unconventional reservoirs]
 - Early-Time "Flowback" Analysis/Interpretation [unconventional reservoirs]
 - Interpretation/Analysis of Time-Rate-Pressure Performance [unconventional reservoirs]
 - Parametric/Non-Parametric Correlation of Well Performance Data [various applications]
 - Numerical Analysis/Interpretation Techniques for Data [various applications]



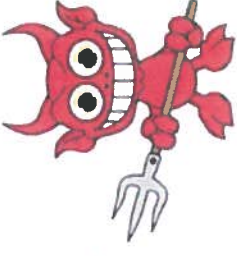
[2012]



[2016]
(Saudi Arabia
visa photo)



[self image]



[how others
see me]

Research Portfolio: Tom Blasingame

● M.S. Projects:

- Agharzayeva Correlation/Prediction of Pressure Performance using Flowrates (active)
- Anatraksakul *Project TBD* (... reservoir modeling for unconventional) (coursework)
- Bryan *Project TBD* (... analysis of well performance) (coursework)
- Chingulprasan Diagnostic Methods for Unconventional Well Performance (start-up)
- Fonseca Non-Parametric Correlation of Well Performance (active)
- Fulford Analysis & Interpretation of Unconventional Well Performance (active)
- Jin *Project TBD* (... reservoir modeling for unconventional) (coursework)
- Lortong Use of Tikhonov Regularization in Pressure Derivative Analysis (active)
- Sarkar *Project TBD* (... reservoir modeling for unconventional) (coursework)
- Sivon Fracture Models for Numerical Simulation (Unconventionals) (closure)

■ Ph.D. Projects:

- Garcia Mechanistic Behavior for Unconventional Reservoirs (start-up)
- Kou Dynamic Modeling of Proppant Transport in Fractures (active)
- Moridis Reserves, A&D, and Assessment of Unconventional Reservoirs (active)
- Perez-Valdez Fractured Horizontal Wells in Fractal Reservoirs (closure)

● M.Eng. Students: (*those actively engaged and/or working on projects*)

- Leonard (*Coursework Closure*) Project in Summer 2018 (Aug 2018)
- Lerohl Application of Machine Learning to Valve Failures in Operations (2018)
- Martinez Correlation of Completion Parameters and Production Metrics (2018)
- White Completion Aspects of Well Performance (Delaware Basin) (Aug 2018)

Professional Biography: Tom Blasingame

- Tom Blasingame is a Professor and is the holder of the Robert L. Whiting Professorship in the Department of Petroleum Engineering at Texas A&M University in College Station Texas. He holds B.S., M.S., and Ph.D. degrees from Texas A&M University — all in Petroleum Engineering. In teaching, Blasingame focuses on petrophysics, reservoir engineering, analysis/interpretation of well performance, unconventional resources, and technical mathematics.
- Blasingame's research efforts deal with topics in applied reservoir engineering, reservoir modeling, and production engineering. Blasingame has made several contributions to the petroleum literature in well test analysis, analysis of production data, evaluation of low/ultra-low permeability reservoirs, and general reservoir engineering (e.g., hydrocarbon phase behavior, natural gas engineering, inflow performance relations, material balance methods, and field studies). To date (May 2018), Blasingame has graduated 66 M.S. (thesis), 34 M.Eng. (report, non-thesis), and 13 Ph.D. students, and he has performed several major field studies involving geology, petrophysics, and engineering tasks.
- Blasingame is a member of the Society of Petroleum Engineers (SPE), the Society for Exploration Geophysicists (SEG) and the American Association of Petroleum Geologists (AAPG). Blasingame is a Distinguished Member of the Society of Petroleum Engineers (2000) and he is a recipient of the SPE Distinguished Service Award (2005), the SPE Uren Award (for technology contributions before age 45) (2006), the SPE Lucas Medal (SPE's preeminent technical award) (2012), the SPE DeGolyer Distinguished Service Medal (2013), the SPE Distinguished Achievement Award for Petroleum Engineering Faculty (2014), and SPE Honorary Membership (2015). Blasingame has served as an SPE Distinguished Lecturer (2005-2006) and is the SPE Technical Director for Reservoir Description and Dynamics (2015-2018). Blasingame has prepared approximately 150 technical articles; and he has chaired numerous technical committees and technical meetings. Blasingame also served as Assistant Department Head (Graduate Programs) for the Department of Petroleum Engineering at Texas A&M from 1997 to 2003, and Blasingame has been recognized with several teaching and service awards from Texas A&M University.

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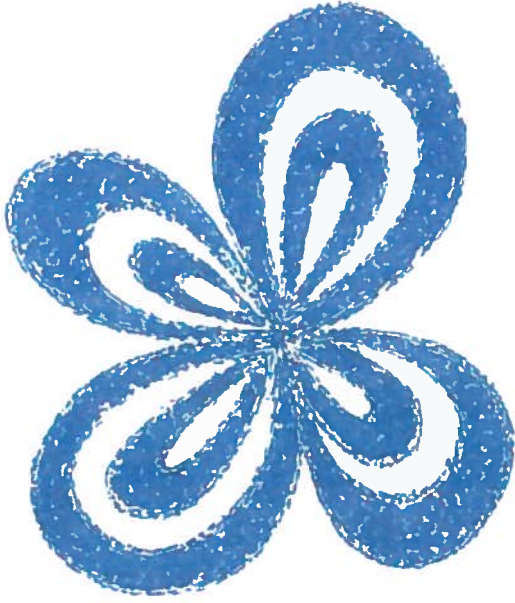
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What makes me tick ...

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Personal Photos: Tom Blasingame

Napkin Art (drawn on recent flight)



Marriage Counseling (in NZ)



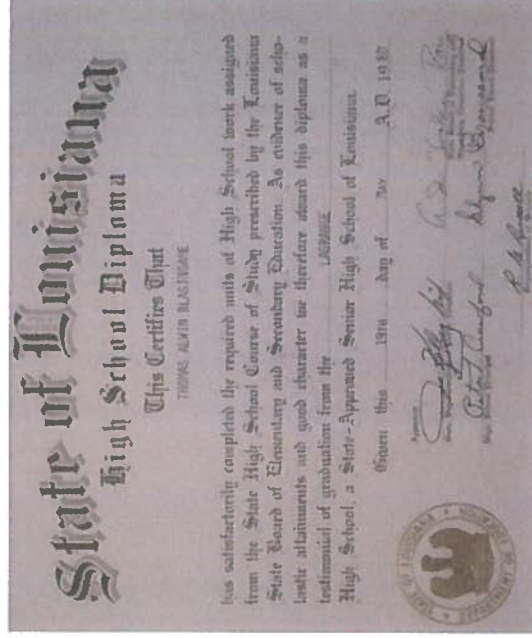
My Favorite Place and Best Friends



Favorite Meal



My Proudest Professional Achievement



Family in "Hobbiton"

