Engineering Ethics:  
“. . . and our Sacred Honor”

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Grubbs’ Landscaping

The Grubbs’ People Box.
John McGaha

“I hope Grubbs keeps this short so I can make it to happy hour.”

George Kleinpeter

“I’m not sure he’s that smart, but Grubbs does have a great haircut.”

Nick Altiero

“Hmm … Did Amy want me to get skim milk or whole milk?”

Engineers:

WHAT WE DO!

Water – Our most precious resource.

Magnetic Resonance Elastography

Alex Ping gets a new arm!

The Drone
The World Trade Center

The Yearly Ethics Update

Charges

- Forced sex
- Wrongful sexual conduct
- Violating an order
- Possessing pornography and alcohol while deployed
- Misusing a government travel charge card
- Filing fraudulent claims

Brigadier General Jeffrey Sinclair
Lieutenant Colonel
Ben Bigelow

What is This?

The 2005 Cobalt

GM CEO
Mary Barra

Raymond DeGiorgio

The result: 54 crashes and 32 deaths

Honor and Engineering

The 18th Century

Brooke Melton: Killed in Car Crash
March 10, 2010 Her 29th Birthday
King George III …

refused his assent to laws, the most wholesome and necessary for the public good.

forbade his governors to pass laws of immediate and pressing importance …

refused to pass other laws for the accommodation of large districts of people, unless those people would relinquish the right of Representation in the Legislature …

called together legislative bodies at places unusual, uncomfortable, and distant from the depository of their public records …

dissolved Representative Houses repeatedly, for opposing with manly firmness his invasions on the rights of the people.

refused for a long time, after such dissolutions, to cause others to be elected …

obstructed the administration of justice, by refusing his assent to laws for establishing judiciary powers.

made judges dependent on his will alone …

erected a multitude of new offices, and sent hither swarms of officers to harass our people, and eat out their substance.

kept among us, in times of peace, standing Armies without consent of our legislatures …

affected to render the Military independent of and superior to the Civil power.

and on and on ….

Rally Against King George III
~ Circa June 1776

IN CONGRESS, JULY 4, 1776
The unanimous Declaration of the thirteen united States of America:

When in the Course of human events it becomes necessary for one people to dissolve the political bands which have connected them with another and to assume among the powers of the earth, the separate and equal station to which the Laws of Nature and of Nature's God entitle them, a decent respect to the opinions of mankind requires that they should declare the causes which impel them to the separation.
We hold these truths to be self-evident, that all men are created equal, that they are endowed by their Creator with certain unalienable Rights, that among these are Life, Liberty and the pursuit of Happiness.

And for the support of this Declaration, with a firm reliance on the protection of Divine Providence, we mutually pledge to each other our Lives, our Fortunes, and our sacred Honor.

... YOUR sacred honor!

**Tulane University**

Promoting high ethical standards. The faculty, staff, and students value personal and professional integrity. Our daily activities are based on this responsibility and reflect a commitment to these core values.

**ETHICAL VALUES**

- Integrity
- Honesty
- Fidelity
- Charity
- Responsibility
- Loyalty
- Self-discipline

**HONOR**

**CODE OF ETHICS: ASCE**

- Shall hold paramount safety, health & public welfare and adhere to principle of sustainable development
- Shall perform services only in area of competence
- Avoid deception in solicitation of professional employment
- Public statements must be objective and truthful
### CODE OF ETHICS: ASCE

- Be a faithful agent or trustee in representing employer or client
- Build professional reputation on the merit of services; shall not compete unfairly with others
- Act in a manner upholding and enhancing the honor, integrity, and dignity of the engineering profession; zero-tolerance for bribery, fraud, and corruption
- Continue professional development throughout one's careers; provide opportunities for the professional development of rising engineers

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### Ethics: AICE

- AICE members shall uphold and advance the integrity, honor and dignity of the engineering profession by:
  - Being honest and impartial and serving with fidelity their employers, their clients, and the public;
  - Striving to increase the competence and prestige of the engineering profession;
  - Using their knowledge and skill for the enhancement of human welfare.

### Here's a Question

**Why do statistics show women have 20% of American engineering degrees, yet only 11% stay in the engineering profession?**

### ENGINEERING ETHICS

#### Our Culture

- Pride in the profession
- Public welfare
- Individual pride
- Competency
- Human interaction
- Company values (conflict with bottom line)

### Have you ever:

- Had an engineering ethical dilemma?
- Mentored a young engineer?
- Risked your career over a matter of HONOR?
- Coached a kids sports team?
- Taught math to minority kids?
- Been involved in community service?
- ... and on and on and on?
A PERSONAL ETHICS MODEL

- PERSONAL VISION (Philosophy)
- COMPETENCE
- AFFIRM OTHERS
- STANDARDS
- TELL THE TRUTH
- STAND UP TO THE MOB
- PRACTICE-PRACTICE-PRACTICE

And for the support of this Declaration, with a firm reliance on the protection of Divine Providence, we mutually pledge to each other our Lives, our Fortunes, and our sacred Honor.

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Final comment about our culture.

Tolerance becomes a crime when applied to evil.

~ Thomas Mann