

January 13, 2011

ENGR110/210

Perspectives in Assistive Technology



David L. Jaffe, MS



Professor Drew Nelson



Harpreet K. Sangha

Questions, Comments, Thoughts?



Handouts

See Dave if you are missing any handout. (They are also online.)

- Jan 4th
 - Assignment One
 - Candidate Projects
 - Who is Disabled? Questions for Contemplation

- Jan 11th
 - Better Brainstorms – Better Scenarios

Did You Miss a Required Lecture?

- Review lecture audio, videos, handouts, and slides on course website
- Email me a 1 – 2 page summary of the lecture including your thoughts
- Upon receipt of your summary, I will credit you with “attending” the lecture

Items

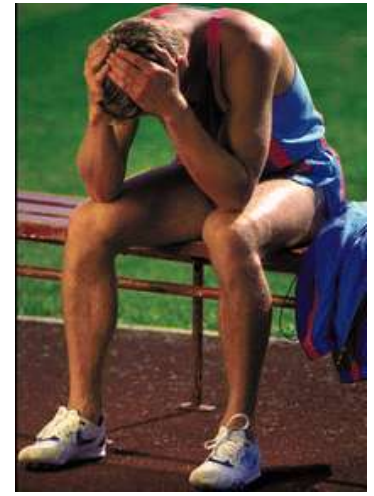
- Course website:
<http://engr110.stanford.edu>
- Team formation
- Project selection
- Who is planning to take ME113 next quarter?

Failure



Failure

1. Is it always a negative thing?
2. Is it always something to avoid?
3. Are some failures better than others?
4. Is failure the opposite of success?



IF AT FIRST
YOU DON'T
SUCCEED,
TRY, TRY
AGAIN!

If at first you don't succeed,
don't take up skydiving!



Failure is not an option



Apollo XIII

failure is always an option



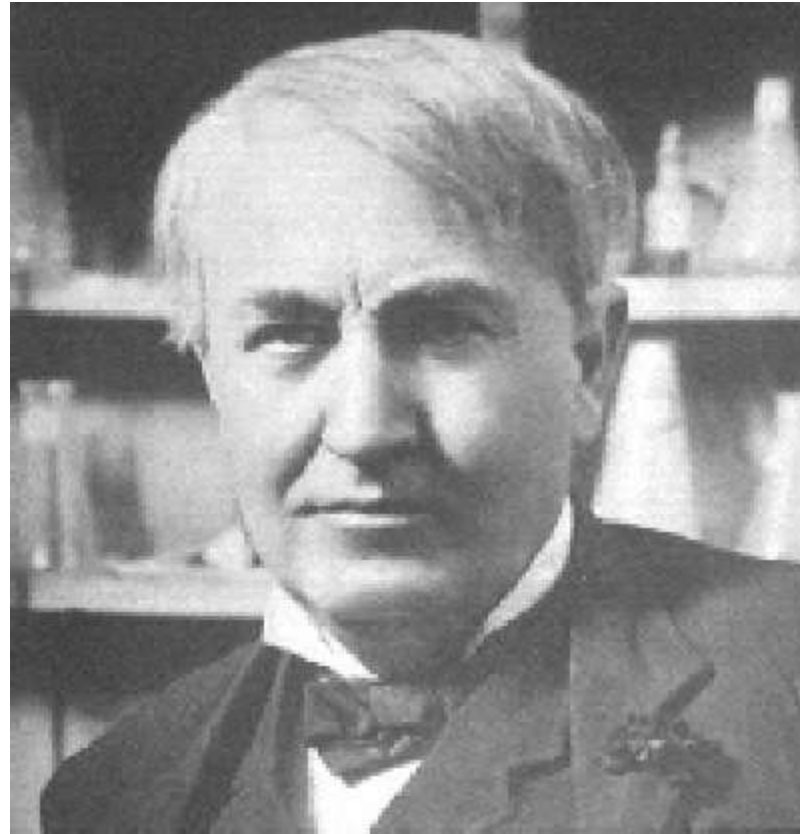
Adam Savage
Mythbusters

Failure is not falling down,
it is not getting up again.



Mary Pickford
Actress

I have not failed. I've just found
10,000 ways that won't work.



Thomas Alva Edison

If you want to increase your success rate, double your failure rate.

You can be discouraged by failure, or you can learn from it

- so go ahead and make mistakes, make all you can -
- because, remember that's where you'll find success –
on the far side of failure.



Thomas J. Watson Sr.

Not many people are willing to give failure a second opportunity - they fail once and it's all over. If you're willing to accept failure and learn from it, if you're willing to consider failure as a blessing in disguise and bounce back, you've got the potential of harnessing one of the most powerful success forces.

Joseph Sugarman

Failure should be our teacher, not our undertaker. Failure is delay, not defeat. It is a temporary detour, not a dead end.

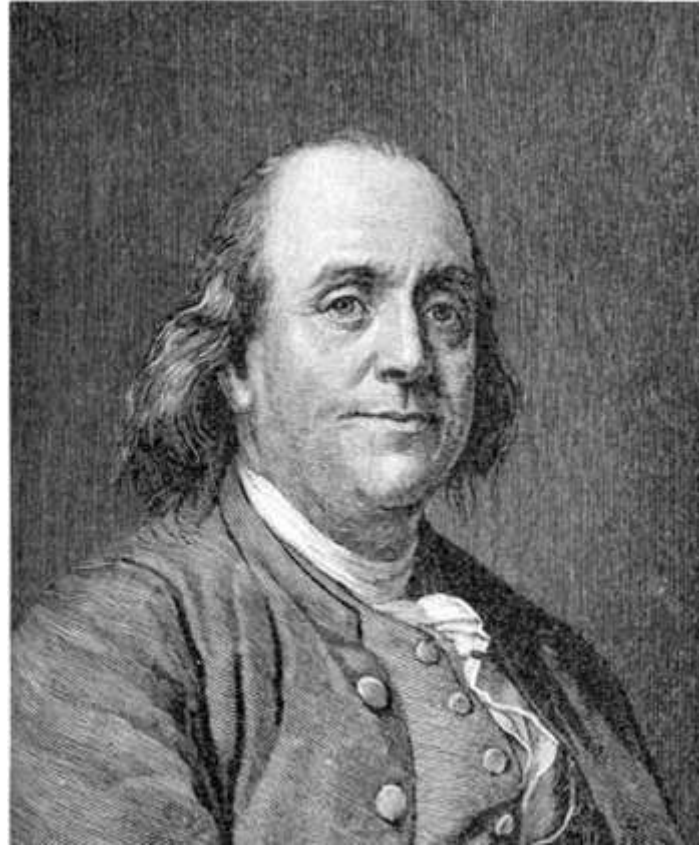
Denis Watley

From honest failure can come valuable experience.

William Arthur Ward



Failure to prepare
is preparing to fail



Ben Franklin
Founding Father

Trying is the first step towards failure



Homer Simpson
Cartoon Father

Embrace Failure!



Professor Dave Beach

**Fail Faster.
Succeed Sooner.**



Failure is the highway to success



John Keats
Poet

Messages

1. Prototype early and often – use sketches, crude models, cardboard-aided design (CAD)
2. Employ all your knowledge, senses, skills, and engineering intuition
3. Make good use of team members, coaches, and resource people
4. Balance planning and fabrication tasks – **manage your time**
5. Don't expect a linear path for your project from beginning to end
6. Prepare to make mistakes and experience failures – plan for them, understand them, learn from them
7. Don't get discouraged – **don't give up**

Discussion

1. Was Apollo XIII a success or failure?
2. Was the Concorde a success or failure?
3. What ultimately determines success / failure?
4. Can an effort be a partial success / failure?



Tuesday



Douglas F. Schwandt, MS
Design Challenges in Assistive Technology



Maurice LeBlanc, MSME, CP
**"Give Hope - Give a Hand" - The LN-4
Prosthetic Hand**

Today



Deborah E. Kenney, MS, OTR/L
**The Transdisciplinary Team: Bridging the
Gap between Consumers and Products in
Rehabilitation Medicine**

Adjourn

