

Governor's School, 2024

Intro

testing 0, 1, 2

minamina

science guy. might be flattering myself, not great grades, but career success counts.

I am one of you...boomer version.

science guy: lasers, h-bombs, radar ovens, rockets, computers, vaccines

I love living in the future. pocket computers, Internet, genomics, cosmology, virology, genetics

my peeps

it might have been me, but not such good grades. Hang out with our types. many fewer girls back in the day.

not so good grades often. why? tested well, but autodidact stem

some barriers to entry

new stuff...interesting, lucrative, keeping up, be cool for your kids fields you haven't heard about money is usually not a problem.

Overview

my life decisions,

experience in research,

WDYWBTBWYGU

waves of the future

sensitivity to initial conditions (chaos)...good teacher, random encounters

hang out with smart people

travel? desk? outside? science? engineering?

amazing teachers and geology for this science guy

many ways to help others:

Norman Borloug

Charles dickens

Malthus

Food was a concern in the 60s and 60s
go to conferences

find and hang out with people you admire...college choice?

what research is like

look around the lunch table
some are on some spectrums....not necessarily bad
some resistance to females. don't be that guy
corporate vs academic vs government

disorganized a bit, bio with

- people
- projects
- patents

stuff it would have been nice to know when I was a teen.

(I probably would have ignored some of the advice.)

retirement is 50 years away. looking back, with some advice

Some advice for saving for retirement.

Career

Mentor Project Ideas

- eavesdropping on the waggle dance
- hive weight and activity monitor with front video
- I have mail
- 3D bee flight paths

Various ideas

Certain ideas and knowledge...playing with stuff

- computer sound: mockingbird, fruit sonar, traintool, cracklecounter

Combining stuff: traceroute plus graph layout

- internet and intranet maps

Playing with toys

- Mr thumbnail, photo thumb array

Galactic broadcasts

Stuff I carry around today

- geiger counter: granite, cosmic rays, chunnel, altimeter, dentist, radiation
- IR camera

both quite educational

Public Speaking

planned talk for weeks

some talks suggestions: speak up, know your subject, teaching helps, good public

notes for high points. slides with bullet items are for the speaker, not the audience.

Don't read your speech.

Ladies, be a little assertive. Maybe even use a speech coach. Don't mumbler, you

want old people to understand you. People tune out. Poor english can do this. People tune out,

and I have done coding and thinking in a dark room where I had tuned out the speaker.

fame is useful

keynote feedback, research feedback, bruce sterling

self- advertising

good at talking to the press?

messaging issues

public speaking...know what you are talking about

imposter syndrome, improves writing style

papers: make it easy: font sizes, colorblindness

interacting with the press...pushback from colleagues?

fame is useful

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My Talks

Advice

Uncle Bill

noticing, finding, and working with new stuff

terminal ping program

ruit sonar
mockingbird silencer
patents

password ideas: [zoomauth](#), [105](#), [what three words internet maps](#): comes from listening to problems.
[mr thumbnail](#)

time lapse....florida, bernardsville, and sfo-ewr

Ideas come from:

in the shower

on the beach

with collaborators....lunch at bell labs

amplifier. most of my efforts were not solo

looking back

amazing life!

nobel prize winners. freeman, randi.

sci fi authors

bruce sterling, vernor vingie

s.m.sterling

Waves of the future?

Energy....nuclear base load

Health

...obesity and the microbiome. diabetes, too. satiety.

science 332, #6025, p32-33. 1 april 2011

obese have fewer bacteria types, esp methanogens

80% correlation with 6 metasppecies

diagnosis and treatment of disease...cancer, diabetes, obesity.

smart toileys,

cheap, routine medical tests.

brain...speed of parts. interface is hard...make the bio come to you!

hard...salty, acidic, messy. heart valve is ungentle with the

blood cells

bio remodels, a big advantage.

Female med responses....lyme in the uterus

materials in human body are cheap. it's just a matter of assembly and organization

\$8 wood stove...smoke causes a huge problem worldwide

aluminum and diamond windows
water and sunlight

not computer security. it's a mess.

nano? oldest tech in the world...zinc fingers, beta sheets, etc.
MEMS and similarly specialized.

retirement

what are you going to do?
you may lose a bit of your fastball
you will need money
i am mentoring about stocks

stocks

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