

Presentation Topic Ideas

Dr. Tree's advice

This class is a 0.5 credit presentation class; you do not have time to do a research project. *Choose your topic wisely.* To save time, I suggest that you choose a topic that you either know well already, or chose Business and Technical topics that are related. Otherwise, you will spend too much time trying to learn about your topic, and not enough time preparing for your presentation.

Ideas for a Technical Presentation

Think of a “science fair” topic.

- Undergraduate Research (*best*)
- Internship/Co-Op (*best*)
- Previous class project (e.g. Fluids)
- Energy technology (wind, biomass, solar, coal, oil, drilling, etc.)
- Transportation technology (electric or hybrid cars, smart cars, etc.)
- Electrochemical technology (batteries, fuel cells, semiconductor fabrication)
- Nuclear technology (advanced reactors, fuel reprocessing, etc.)
- Biochemical/Biomedical (fermentation, bio-remediation, gene sequencing, microfluidics, artificial organs, blood, vaccines, pharmaceuticals)
- Materials (magnetics, piezoelectrics, thermoelectrics, ceramics, sustainable plastics, block polymers, colloidal materials, pulp and paper, mattress foams, polymer membranes, spider silk, 3D printing)
- Environmental (BP oil clean up, new diesel regulations, measurement techniques)
- Physics/Chemistry/Mathematics (something that interested you, numerical methods, general relativity, chemical bonding, statistical mechanics, transition state theory, etc.)
- Chemical analysis (bomb sniffers, UAVs)

Ideas for a Business Presentation

Should be science/engineering related.

- Dredge Utah lake
- Drain lake Powell
- Recycling/Incineration of waste
- Biomass as a fuel source
- Synthetic fuels/Fischer-Tropsch
- Lasik surgery
- Environmental issues (many)
- Replace I-15 with mass transit/gasoline tax hike
- Nuclear recycling and storage
- Sustainable plastics/plastics recycling
- Ocean clean-up
- Reverse osmosis/desalination
- Remove CO₂ directly from the air
- Export of liquefied natural gas (LNG)
- Canadian gas pipeline
- Switch BYU fleet to electric vehicles
- Biomedical devices, new pharmaceuticals
- Driverless cars, UAVs, internet of things
- New materials/polymers
- Space missions/mission to Mars, privatized space flight
- Require laptops for BYU ChE students
- Add or remove a required class for BYU ChE majors
- Require an internship/co-op for every BYU ChE student.
- Clean water/sanitation to the poorest people in the world
- Tesla/the Boring company
- The end of Moore's law (semiconductors)
- Moore's law for genomics.