Cal Poly – San Luis Obispo
(California Polytechnic State University)

Not Cal Tech
(where Jet Propulsion Lab is)

Where is Cal Poly exactly?

![Map of California showing the location of Cal Poly, San Luis Obispo.](image)

Not exactly on coast, but not far away: 20 km both north and south

And, yes, even in winter, the weather is always perfect
Cal Poly at a glance

• 20,000 students, mostly undergraduate
• Part of 23 California State University campuses (largest undergraduate system in USA)
• Students come from all over the USA
• Several “colleges”
  – Engineering, Agriculture, Architecture, Business, Math & Science, Liberal Studies, Education
• In total 5000 engineering students
• Mechanical Engineering is largest department at Cal Poly with about 1100 students
• No PhDs offered but many master degree programs

Some other particulars

• Students come not just from all over California but also from all over USA
• Bachelor is de facto a five-year program
• Master is usually a two-year program
• No required internship (Praktikum)
• Many hands-on labs
Engineering at a glance

• Several departments
  – Mechanical, Electrical, Civil & Environmental, Aerospace, Industrial & Manufacturing, Materials, Biomedical, General, Agricultural (Ag)
• In Mechanical, several concentrations
  – General, Mechatronics, HVAC, Manufacturing
• Close ties with industry (industrial projects)
• A good deal of club activity (SAE, ASME, ASHRAE)
• Labs, labs, labs

Automotive engineering at Cal Poly

• There is no major nor concentration in automotive engineering
  – There was little automotive industry in California
• Despite this there is a long history of involvement in automotive engineering at Cal Poly, mainly through club activity
• Lately there is growing automotive activity in California
  – Tesla, Daimler (Long Beach & Portland), test tracks in the desert (Hyundai, Kia, BMW)
Clubs

- SAE
  - Student Formula, Electric Formula, Baja
- ASME
  - Human Powered Vehicle
- Shell Eco-Marathon

SAE Baja

[Image of a group of people with a race vehicle]
ASME Human Powered Vehicle

Already we’ve had three masters project students from Antwerp

• Tom Daniels – Wind turbine hoisting system
• Jan Michielsen – Crash avoidance system
• Tim Breuers – Took over automotive handling simulation from previous masters student
International partnerships

- Munich University of Applied Sciences
- Karlsruhe University of Applied Sciences
- Chalmers University
- KTH – Stockholm
- TECNUN – San Sebastian
- Lucerne University of Applied Sciences

International Exchange in College of Engineering
In Electrical Engineering becoming more active

• Electrical Engineering has joined the movement for active exchanges
• Jim Dunning, who worked on development team for General Motors EV1 leads battery lab at Cal Poly