



Project Overview

- Engineer behavior into living systems
 - Applications in medicine, agriculture, environment, materials, nanofabrication
- Create components and interfaces
 - Learn ideas of pattern formation, robustness, abstraction, simple cells
- Create a new engineering discipline
 - Students, texts, experimental guides



Progress Through June 30, 2000

- Problems in understanding simple inverter systems
 - Further detailed transfer curve analysis using single cell measurements
- Collaboration with Whitehead on full plasmid synthesis underway
- Culturing of Mycoplasmas successful
 - Genome work begun
 - Enables work with non-pathogens



Research Plan for the Next Six Months

- Fully understand and document existing genetic components
- Start work on understanding simple cells
 - Mesoplasma florum sequence
 - 2D Protein gels
- Transfer laboratory technology
 - Caltech
- Course development