



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
- Create a new engineering discipline
 - Students, texts, experimental guides



Progress Through December 2000

- Transfer curves for genetic inverters
- Initial work on minimal organism
 - “chassis and power supply”
- Long strand DNA synthesis ideas rejected
- Recursive gene construction technique designed
- Isolation and documentation of additional genetic components



Research Plan for the Next Six Months

- Sequence *Mesoplasma florum*
- Genetic tools for *M. florum*
- Protein studies of *M. florum*
- Begin removal of non essential genes
- Test recursive assembly ideas on multigate logic
- Test novel binding techniques for long chain DNA synthesis