



# Caltech Workshop on **Self-Replicating Chemical Systems**

California Institute of Technology · Center for Biological Circuit Design  
**Rock Auditorium, Broad Center for Biological Sciences**  
Pasadena, California

## August 27 - 28, 2007

Register online

<http://www.cbcd.caltech.edu/replication/>



This workshop will gather researchers who are broadly interested in the chemical, physical, and logical properties of self-replicating chemical systems. There will be talks covering the engineering of self-replicating molecules including ribozymes, the design of synthetic cells and minimal biological cells, prebiotic chemistry, robotic self-replication, and self-replication of self-assembled structures.

### Speakers:

**Steve Benner** Foundation for Applied Molecular Evolution  
**Irene Chen** Harvard University  
**Greg Chirikjian** Johns Hopkins University  
**Andrew Ellington** University of Texas at Austin  
**Anthony Forster** Vanderbilt University  
**Reza Ghadiri** Scripps Research Institute  
**Martin Hanczyc** ProtoLife, Inc. (Venice, Italy)  
**Gerald Joyce** Scripps Research Institute  
**Eric Klavins** University of Washington  
**David Lynn** Emory University  
**Vincent Noireaux** University of Minnesota  
**Martin Nowak** Harvard University  
**Rebecca Schulman** Caltech  
**Peter Unrau** Simon Fraser University  
**Bernard Yurke** Lucent Technologies

### Panelists:

**Chris Adami** Keck Graduate Institute and Caltech  
**Drew Endy** Massachusetts Institute of Technology  
**Satoshi Murata** Tokyo Institute of Technology  
**Leslie Orgel** Salk Institute for Biological Studies

### Organizing Committee:

**George Church** Harvard University  
**Anthony Forster** Vanderbilt University  
**Gerald Joyce** Scripps Research Institute  
**Rebecca Schulman** (co-chair) Caltech  
**Erik Winfree** (co-chair) Caltech

Sponsored by  
**Information Science and Technology (IST) and the Center for Biological Circuit Design at Caltech**

