



This workshop will explore the possibility of engineering sophisticated molecular systems in which all major functional roles are played by nucleic acids.

Can the complexity of the RNA world be reproduced, with molecular engineering as the goal? Talks will cover DNA nanotechnology, self-assembly, biomolecular computation and fault-tolerance, computational algorithms for nucleic acid folding and design, molecular motors, nucleic acid thermodynamics and kinetics, ribozymes and *in vitro* evolution.

speakers

Ron Breaker

Yale University

Shi-Jie Chen

University of Missouri, Columbia

Anne Condon

University of British Columbia

Andy Ellington

University of Texas, Austin

Deborah Fygenson

University of California, Santa Barbara

Ashish Goel

Stanford University

Hervé Isambert

Institut Curie

Gerald Joyce

Scripps Research Institute

Chengde Mao

Purdue University

Niles Pierce

California Institute of Technology

John Reif

Duke University

Paul Rothemund

California Institute of Technology

John SantaLucia

Wayne State University

Peter Schuster

University of Vienna

Ned Seeman

New York University

William Shih

Harvard University

Milan Stojanovic

Columbia University

Doug Turner

University of Rochester

Erik Winfree

California Institute of Technology

Hao Yan

Arizona State University

Bernard Yurke

Lucent Bell Labs

organizing committee

Niles Pierce (co-chair), Caltech

Ned Seeman, New York University

Milan Stojanovic, Columbia University

Erik Winfree (co-chair), Caltech



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Information Science and Technology (IST) at Caltech

Center for Biological Circuit Design (CBCD) at Caltech

International Society for Nanoscale Science, Computation and Engineering (ISNSCE)
