WINTER SCHOOL 2012
Perspectives in Nonlinear Science
(Organizers: Ramón Huerta and Lev Tsimring)

CHRISTOPHER VOIGT, MIT: Programming bacteria
JEFF HASTY, UCSD: Synthetic biology: From oscillators to sensing biopixels
IGOR ARANSON, Argonne National Laboratory: Dynamics of swimming bacteria
MIKHAIL RABINOVICH, UCSD: Robust transient dynamics and brain functions
ELI BEN-NAIM, Los Alamos National Laboratory: Sports as a model for competitive societies
ARNOLD MANDELL, UCSD: Magnetic field dynamics in the resting and remembering human brain
ALBERT-LÁSZLÓ BARABÁSI, Northeastern University: Controllability of complex networks
KATJA LINDENBERG, UCSD: Coagulation, annihilation, and evanescence reactions in subdiffusive media
MARK SPANO, Arizona State University: Chaos for speech coding and production
HERBERT LEVINE, UCSD: The nonlinear stochastic dynamics of neurotransmitter release – how does it work and why do we care?
HENRY ABARBANEL, UCSD: Constructing nervous systems from the bottom up

For more information please see the BioCircuits Institute website at biocircuits.ucsd.edu