EPHUS: control software for electrophysiological and circuit mapping experiments
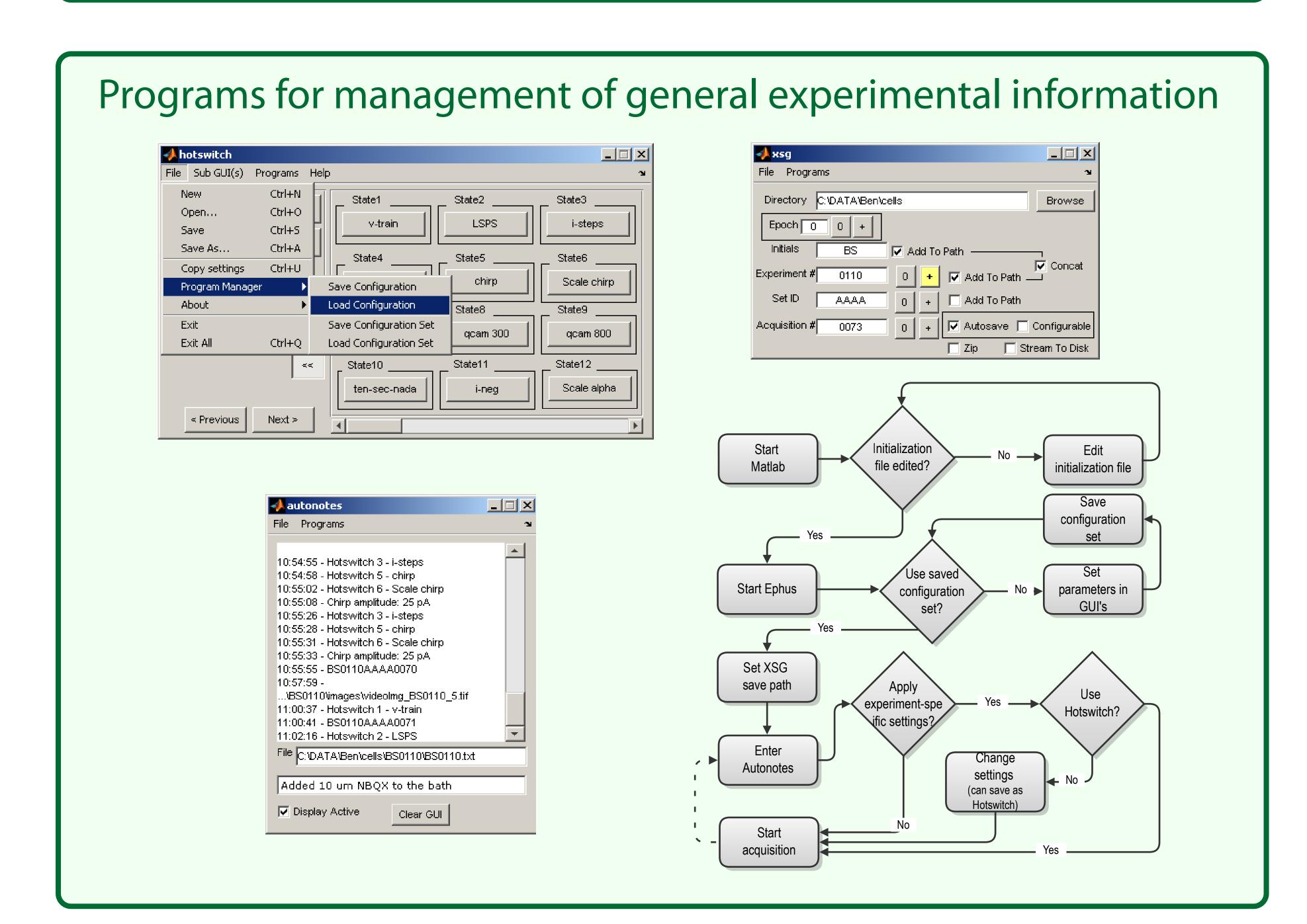
B. A. Suter[1], T. O'Connor[1], V. Iyer[2], B. M. Hooks[2], L. Petreanu[2], S. M. Sternson[2], K. Svoboda[2], G. M. G. Shepherd[12]
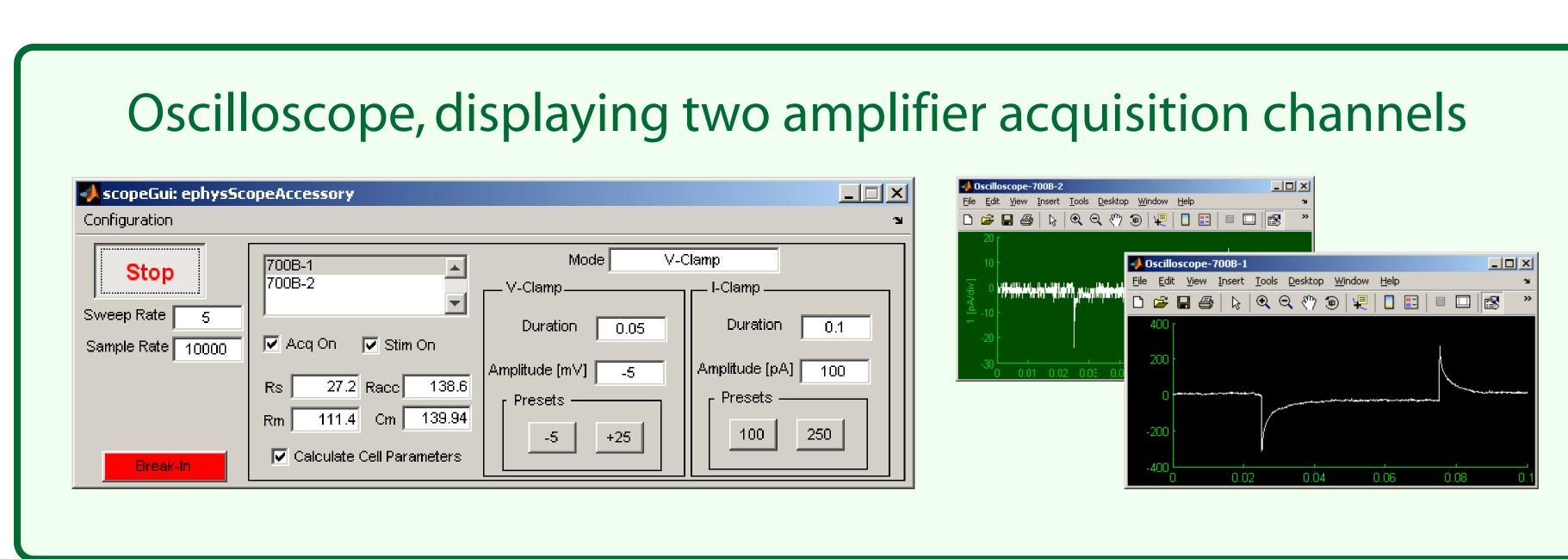
[1]Dept of Physiology, Feinberg School of Medicine, Northwestern University, Chicago, IL, & [2]Janelia Farm Research Campus & Howard Hughes Medical Institute, Ashburn, VA
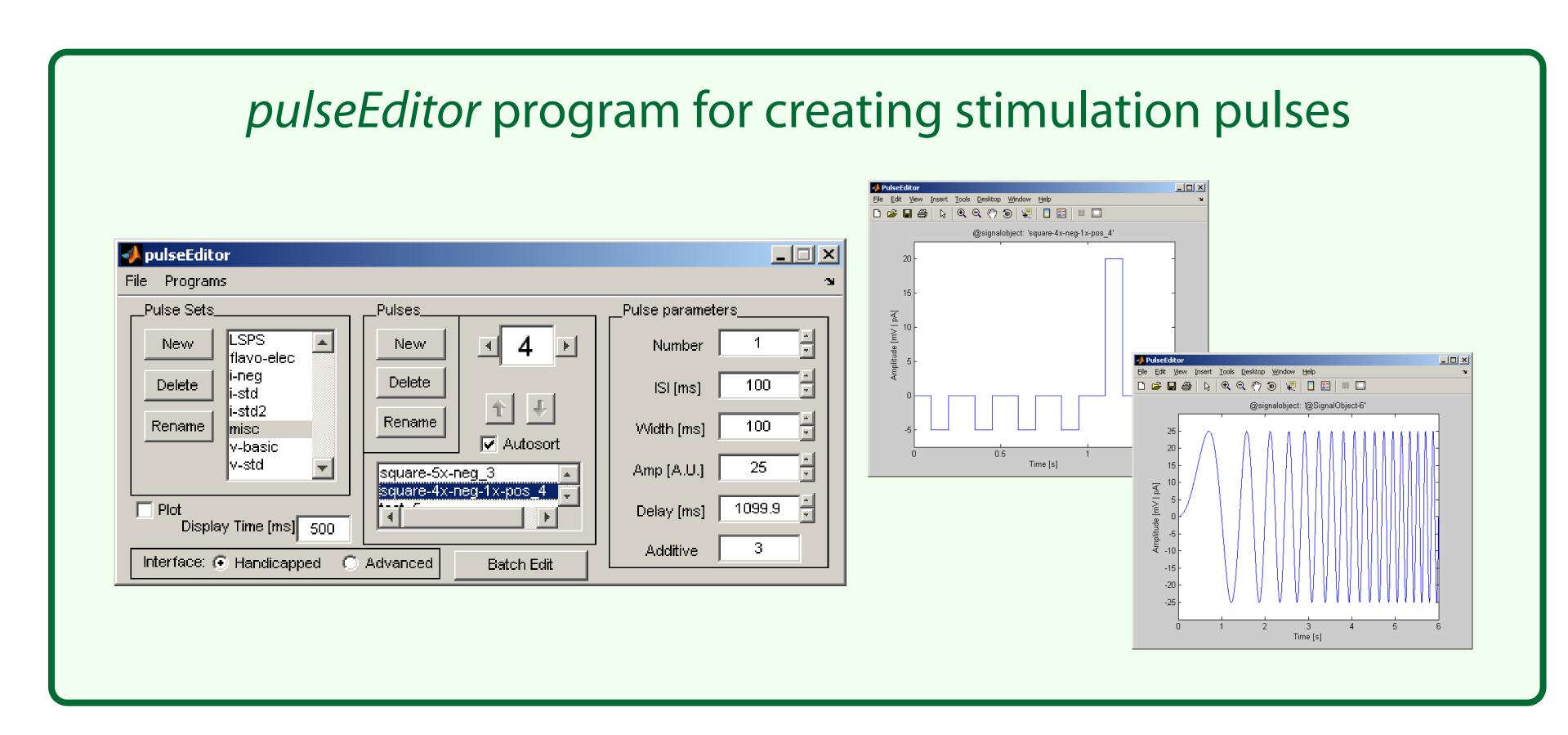
Ephus is a suite of highly flexible and easy to use software tools that can be used for a wide variety of experimental neuroscience applications.
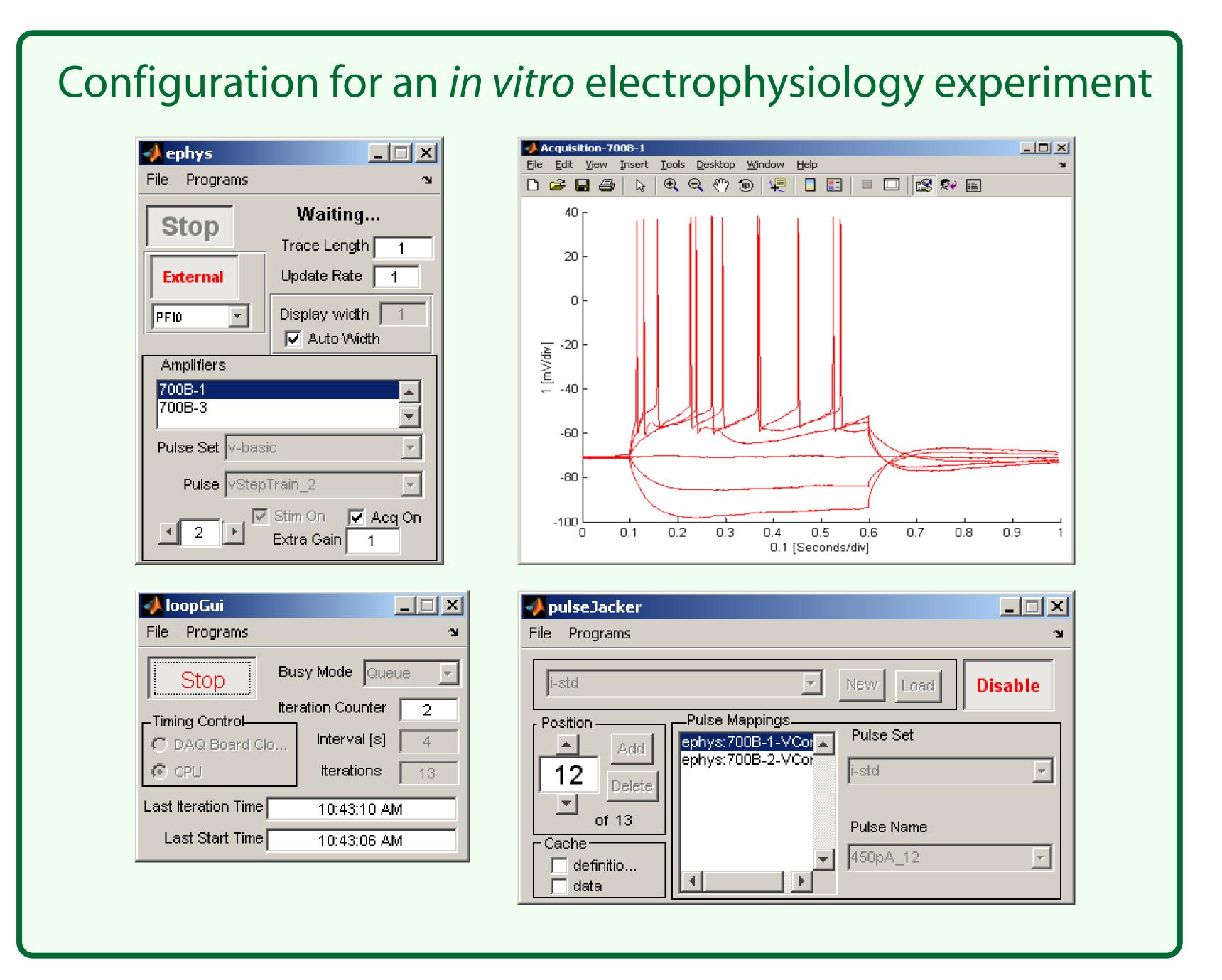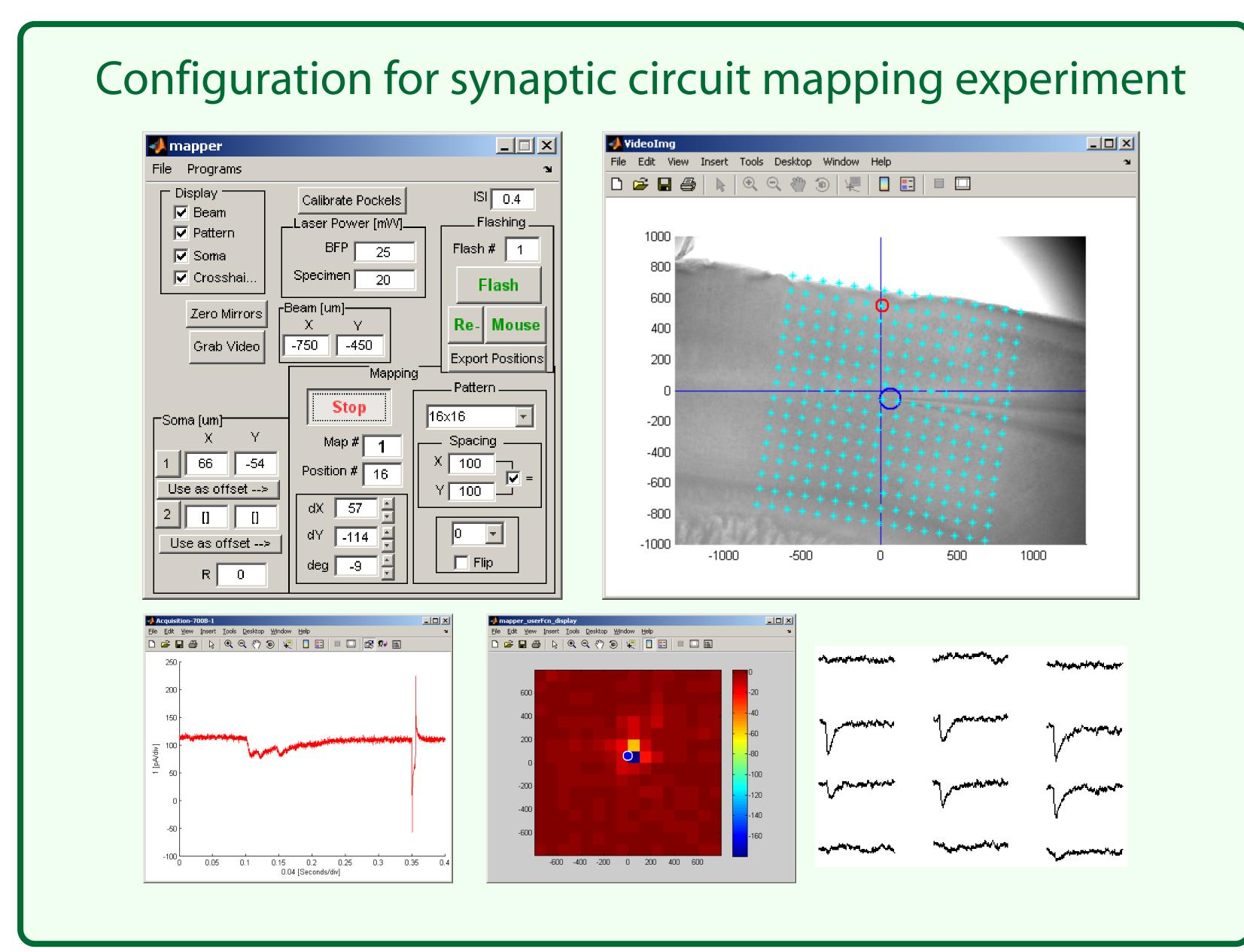
Freely available at www.ephus.org

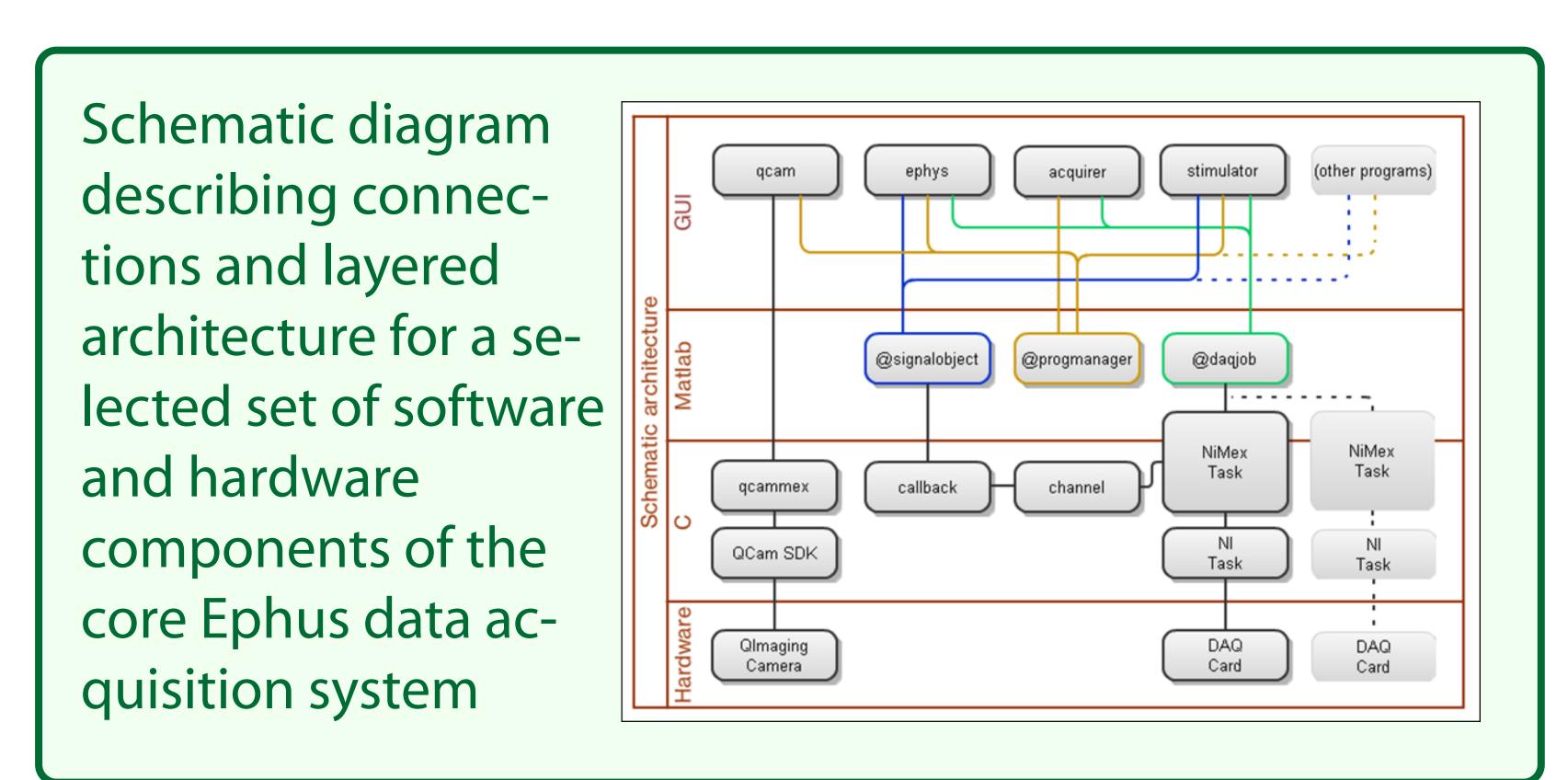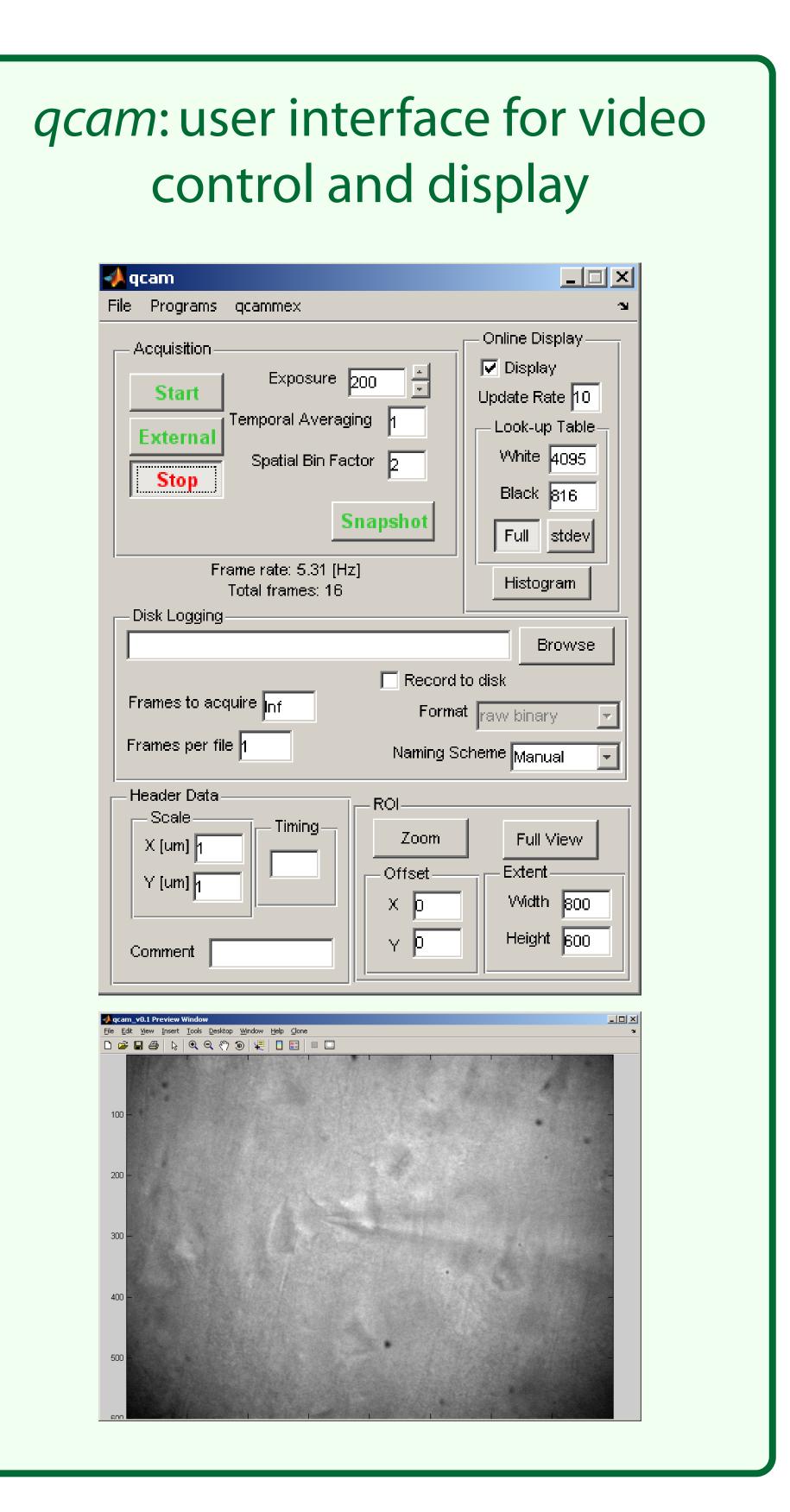Described in: Suter et al. (2010, Frontiers in Neuroscience Methods)

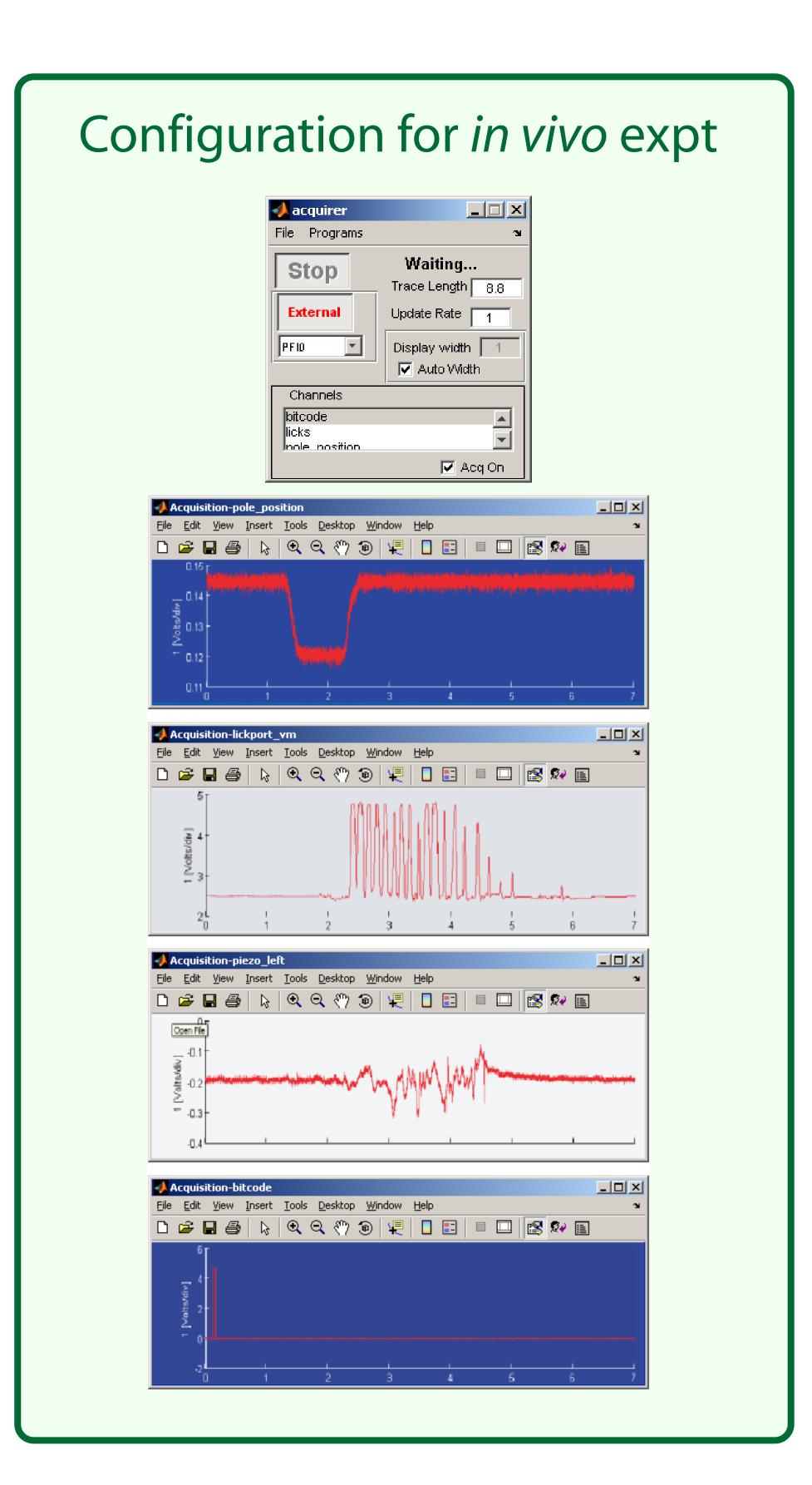## Programs for management of general experimental information

Oscilloscope, displaying two amplifier acquisition channels

pulseEditor program for creating stimulation pulses

Configuration for an *in vitro* electrophysiology experiment

Configuration for synaptic circuit mapping experiment

Schematic diagram describing connections and layered architecture for a selected set of software and hardware components of the core Ephus data acquisition system

qcam: user interface for video control and display

Configuration for *in vivo* expt

Sequence diagram of the propagation of events and the flow of control in response to user action

Companion poster: 816.11/NNN32 - ScanImage