

Summer Workshop @ CCRMA

June 26 - July 6, 2007

P i D

Physical Interaction

Design for Music

Center for Computer Research in Music and Acoustics

<http://ccrma.stanford.edu/workshops/2007>

info@ccrma.stanford.edu

This workshop integrates **programming, electronics, interaction design, audio, and interactive music**. Focus will be on **hands-on applications** using **sensors** and **microprocessors** in conjunction with **real-time DSP** to make music. Specific technologies will include C programming for Atmel AVR microcontrollers, PD and/or Max/MSP for music synthesis, and **sensors** including force-sensitive resistors, bend sensors, accelerometers, IR range finders, etc. Participants will **design and build working musical instruments** using a kit that can be taken home at the end of the workshop. Further issues to be explored will include **modes and mappings** in computer music, exercises in invention, and applications of sensors and electronics to real-time music. The course will be augmented by a survey of existing controllers and pieces of interactive music.

This workshop is intended for:

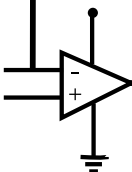
- * **Musicians or composers** interested in exploring new possibilities in interactive music in a hands on and technical way;
- * **Students** looking to gain valuable skills in basic analog and digital electronics, with a focus on invention;
- * **Engineers, computer scientists, or product designers** interested in exploring artistic outlets for their talents and collaborating with performers and composers.

The workshop will consist of half-day supervised lab sessions, and half-day lectures, classroom exercises and discussions. Classroom sessions will feature live demos and/or concerts of interactive music and instruments. Participants are encouraged (but by no means required) to bring their own laptop computers with any music software/hardware they already use.

The workshop will be held on the Stanford campus at CCRMA in the historic Knoll building from June 26th - July 6th, 2007 (including July 4th). Please see the link above for registration details.

Instructors: **Michael Gurevich** and **Carr Wilkerson**

There will be an additional workshop in Singapore, September 3-14, 2007
Learn more at: <http://www.rp.sg/ccrma>



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