

**CENTER FOR COMPUTER RESEARCH IN MUSIC AND ACOUSTICS
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**Department of Music
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**PHYSICAL MODELING AND SIGNAL PROCESSING
CCRMA PAPERS PRESENTED AT THE
1992 INTERNATIONAL COMPUTER MUSIC CONFERENCE**

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**CCRMA Papers on Physical Modeling and Signal Processing
from the 1992 International Computer Music Conference**

Perry Cook: A Meta-Wind-Instrument Physical Model, and a Meta-Controller for Real-Time Performance Control

Brent Gillespie: Dynamic Modeling of the Grand Piano Action

Brent Gillespie: Touch Back Keyboard

Smith and Cook: The Second-Order Digital Waveguide Oscillator

Tanaka: Implementing Quadraphonic Audio on the NeXT: Hardware and Software Issues

Van Duyne and Smith: Implementation of a Variable Pick-Up Point on a Waveguide String Model With FM/AM Applications

Scott A. Van Duyne: Low Piano Tones: Modeling Nearly Harmonic Spectra With Regions of FM

