

## **BEAKMAN LIVE! WORKSHOPS FOR TEACHERS** 1

Paul Zaloom often conducts short workshops and longer classes/workshops for both science and general education teachers. These hands-on, participatory workshops are designed to generate new ideas and approaches for teaching science in the classroom environment.

Ranging from two hours to three weeks in length, most classes can accommodate up to 25 people, can be held almost anywhere, and have minimal technical needs.

Zaloom has taught workshops and classes at the University of Michigan, N.Y.U., George Mason University, Union College, the University of Maryland, Hamilton College, Cal Arts, R.I.S.D., Emerson College, the School of Visual Arts, amongst many others.

There are two types of workshops that Zaloom currently leads:

### **Science Education and Entertainment: Edutainment?**

We explore unconventional ways to teach scientific principles, finding the common ground between science, art and comedy.

Zaloom teaches participants some fun and easy-to-do, hands-on science demonstrations that illustrate the breaking of the sound barrier, Bernoulli's Principle, sublimation, persistence of vision, and more. A handout is provided with details on materials needed, suggested points to cover, and the science involved.

### **A Theater of Trash**

This workshop is centered on the creative process of the artist and how it relates to the creative process of the scientist/teacher.

Participants are asked to bring a minimum of six objects each to the session: toys, appliances, packaging materials, tools, and other junk (it is helpful if the presenter can provide more, if possible.) Each participant has an opportunity to manipulate the assembled junk as puppets and environments in ad-libbed performance events, both alone and in teams.

We explore various parts of the creative process, such as improvisation, free association, humor, child's play, and "thinking without thinking" and how these aspects of invention relate to the world of science and science education.