

Name of Submitter: Edwin Davis**Submitter Email:** edwinpauldavis@gmail.com**Presentation Title:** *Cybernetic Rescuers (Hissing Roaches)*

The concept behind this program is to teach students how integrated microcircuits and microcomputers can aid cockroaches with locating human victims during earthquakes and collapsed buildings. The goal is to teach students the fundamentals of cybernetic implants into living roach species and the use of these bio-bots with high-resolution microphones to differentiate between sounds that matter, like people calling for help—from sounds that don't matter, like a leaking pipe.

Presentation Target:

High School

Presenter(s):

1. Edwin Davis, STEM Director, Science Happens 4 Me