

# PICO CAL

## Tools for the NanoWorld

### **PICO CAL INC. Announces publication of new micromachined device for remote explosive detection**

Ann Arbor, MI--(March 24, 2011) – Angelo Gaitas, President of PicoCal Inc., announced a recent publication which was a result of PicoCal's collaboration with Prof. Sessler's group from the University of Texas-Austin.

The researchers combined a colorimetric receptor with a polyimide microcantilever that includes a mechanical stress sensing element to detect 10 parts per billion trinitrobenzene vapor. This represents a 30-fold improvement relative to the receptor in halogenated solvents, suggesting that this approach can provide a solution to translating the chemical response of colorimetric chemosensors into practical devices.

The publication is titled "A colorimetric receptor combined with a microcantilever sensor for explosive vapor detection," and has been published online in Applied Physics Letters (Vol.98, Issue 12): URL: <http://link.aip.org/link/?APL/98/123501> DOI: 10.1063/1.3567011. The research was partially funded by NSF's Phase 1 SBIR award no. 0912423.

#### Company Background:

PicoCal Inc. is a leader in microcantilever technologies for industrial, medical devices, microfluidic and scientific analytical sensing applications. Founded in 2004, PicoCal Inc. leverages the many years of experience of its founders and associates in microfabrication, microscopy, and engineering. Please visit: [www.picocal.com](http://www.picocal.com)

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