

## POSTER PRESENTATION

### DIATOMS OF THE UNITED STATES. I. TAXONOMY, ULTRASTRUCTURE AND DESCRIPTIONS OF FIFTY NEW SPECIES AND OTHER RARELY REPORTED TAXA FROM LAKE SEDIMENTS IN THE WESTERN U.S.A.

J.P. Kociolek<sup>1,2</sup>, B. Laslandes<sup>1</sup>, D. Bennett<sup>3</sup>, E. Thomas<sup>1,2</sup>, M. Brady<sup>1,4</sup> & C. Graeff<sup>1,2</sup>

<sup>1</sup>Natural History Museum, University of Colorado, Boulder, CO

<sup>2</sup>Department of Ecology and Evolutionary Biology, University of Colorado, Boulder, CO

<sup>3</sup>University of California San Diego, La Jolla, CA

<sup>4</sup>University of Texas, Austin, TX

From our examination of sediments from over two hundred lakes in the western United States, we have identified over 50 species that appear to be new to science. In addition, there are species that have never been reported previously from the United States, and we provide nomenclatural and other details for species we encountered in our examination of these sediments. Most major groups are represented. For each taxon we provide light microscopic observations, and for the majority of taxa we also include scanning electron microscopic observations. It appears that there are still many new taxa to be found in the flora of the United States.