to tilting and rotation (twisting), was issued on 15 August 1961 to Nils A. Jemberg and me.

In 1956, at the Rockefeller Institute, we had developed the Universal Plate as the platform for a programmable laboratory shaker capable of sustaining a wide range of anharmonic (acceleration uncoupled from displacement) linear and planar displacements. All commercially available shakers deliver only harmonic (acceleration proportional to displacement) motion. Analysis of the motion imparted to the platform by its drive mechanism led to the discovery of an analytical basis for geometrical symmetry, of a previously unknown Euclidean transformation, and of previously unknown families of curves.

Anharmonic motion of a shaker is desirable to overcome the tendency to form standing waves in cell cultures and in suspensions of particulate matter (paints and so forth), which can promote the formation of aggregates and other undesirable phenomena. In response to our patent application, we were informed by the patent examiner that he and his colleagues were unable to fathom how the described device could sustain the claimed displacements, and that before a patent could be issued, they would need to see a working model. I took one to Washington, D.C., and demonstrated its operation to the head of the section.

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Tulane Investigation Completed

On 7 June 1996 (p. 1489), *Science* published a report entitled "Synergistic activation of estrogen receptor with combinations of environmental chemicals." On Friday, 18 July 1997, the paper's senior author, John A. McLachlan, sent *Science* a letter formally withdrawing the report. His letter was published in the issue of 25 July (p. 462).

Concurrent with the withdrawal of the paper, Tulane University convened a committee of academicians to investigate possible scientific misconduct by Steven F. Arnold, the study's principal investigator, and McLachlan, the senior author.

McLachlan is the director of the Center for Bioenvironmental Research at Tulane University. Arnold resigned from the university in 1997.

After a comprehensive review, the committee determined that McLachlan did not commit, participate in, or have any knowledge of any scientific misconduct.

With respect to Arnold, the committee concluded that he provided insufficient data to support the major conclusions of the *Science* paper. Additionally, independent review of Arnold's data does not support the major conclusions contained within the *Science* paper.

The university is making this letter public and does not intend to make further official public comment.

John C. LaRosa
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CORRECTIONS AND CLARIFICATIONS

In note 14 (p. 1502) of the Research Article "The global topography of Mars and Implications for surface evolution" by D. E. Smith *et al.* (28 May, p. 1495), the last line should have read, "3,396,000 m."

A graph comparing the number of women members of the National Academy of Sciences with the available pool of talent by field (News of the Week, 7 May, p. 891) did not fully describe that pool. The left-hand bar depicted the percentage of women scientists employed in Research I and II institutions who earned their Ph.D. before 1969.