

ence spikes (3). Cloutier makes special mention that "our comment (3) was published without a reply from Singh and Russell." One should not interpret absence of a simultaneous reply to mean that no reply was published. In fact, we did publish our comments in a subsequent issue of the same journal (4). A careful reexamination of OEFD signals aboard the PVO showed a temporal clustering of signals in the late afternoon and evening hours. In view of the tenfold decrease of sulfur dioxide concentration in the Venus atmosphere from late 1978 to 1986, the observed clustering of signals was attributed to local dynamical processes (4). The telemetric interference and spacecraft discharge hypotheses remain to be substantiated.

The question of whether Venus is dead or alive can likely be settled by observations from the Magellan orbiter. Electrical discharges in Venus clouds are only an indicator of dynamical processes in the dense Venusian cloud system, and their enhancement and correlation with active volcanoes can be established, if Magellan catches Venus in the act. While I have stated that "lightning is not a verdict on Venus's life" (5), it may help us find answers to some of our questions about Venus.

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#### Ulysses' Wobble

In the News briefing "Ulysses: All shook up" (21 Dec., p. 1663), there is no mention of the part played by European experts in assessing and solving the space probe's "wobble" problem. Today Ulysses is fully commissioned and operational. It is more than 120 million kilometers from Earth, and the "wobble" or precession of its spin axis has now been eliminated. Experts at the European Space Agency have developed techniques to control it in the event of any recurrence later in the mission.

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