

September 2, 1841

the experimental sciences, we must have a profound acquaintance with all that has been done in the particular branch, as well as with all the collateral ones. We must be familiar with the processes of experimenting, and with the logical methods of reasoning which alone are admissible in science.

Respectfully yours, &c.

JOSEPH HENRY.

P.S. You will find in the *Annales de Chimie et de Physique*, by consulting the general index to the work, several papers by Marianini on the effects of galvanism on animals, and also on the subject of electrical fish.¹³

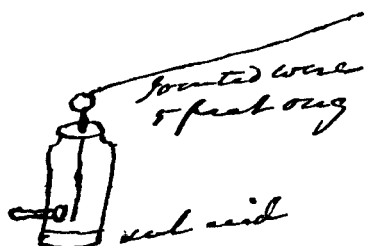
¹³ e.g., 1829, 2d ser. 40:225-256; 1833, 2d ser. 54:366-379.

"RECORD OF EXPERIMENTS"¹

Henry Papers, Smithsonian Archives

Sept 2nd [1841]
{Effects of Lightning induction
}at a distance

I am informed by My Friend Dr Ellett² that he has observed that one of Dr Hares electrometers is affected by the flash from a cloud at a great distance even miles off³



apparatus placed on a window at each flash the leaf will strike the knob

If you take a human hair and draw it across the brass the leaves will diverge

¹ This entry shared a notebook page with the last paragraphs of the entry for July 16, 1841, printed above, which completed Henry's observations of the storm of July 14. Part of the entry found its way into Henry's November 5, 1841, account of that storm to the American Philosophical Society, published in the *Proceedings*, 1841-1843, 2:115-116.

² Apparently Ellet visited Henry in Princeton. See above, Henry to Torrey, August 24, 1841.

³ Henry used this observation in his discussion of inductive effects from sparks in "Contributions V: Induction from Ordinary Electricity; Oscillatory Discharge," last paragraph.