

GENEALOGY DATABASE ENTRY

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LeChatelier, Henry Louis

1850 - 1936

DEGREE: Ing. Mines

DATE: 1873

PLACE: École des Mines

TEACHER/RESEARCH ADVISOR: Mallard/Deville

devised the platinum vs. 90platinum/10rhodium thermocouple, which is still the international standard for temperature measurements; made fundamental studies of cements and alloys, both with respect to chemical constitution (including intermetallic compounds, solid solutions, and allotropic modifications) and physical structure; first person to explain the phenomena responsible for the hardening of steel; devised numerous new methods and instruments, including a revolutionary form of the metallographic microscope; founded the *Revue de Métallurgie*; investigations of the explosions of mine gases led to extensive studies of chemical equilibria, culminating in LeChatelier's Principle - a system tends to change so as to minimize the effects of an external disturbance.

1. *Dictionary of Scientific Biography*; Charles Scribner's Sons: 1970-1990; vol. 8, p116-120.
2. *J. Chem. Soc.* **1938**, 139-150.
3. *Revue de Métallurgie* **1937**, 34, 1-160.
4. *J. l'École Polytechn. (Ser. 3)* **1937**, (1), 1-8.
5. *Bull. Soc. Chim. Fr. (Ser. 5)* **1937**, 4, 1557-1611.
6. *J. Chem. Ed.* **1931**, 8, 442-461.
7. *Great Chemists*; Farber, E., Ed.; Interscience: 1961; p909-920.
8. *Proc. Am. Acad. Arts. Sci.* **1950**, 78, 30-32.
9. *Chem. Ber.* **1939**, 72A, 122-127.
10. *Bull. Am. Ceram. Soc.* **1937**, 16, 155-163.
11. *J. Chem. Ed.* **1937**, 14, 555-560.
12. *Obit. Not. Fell. Roy. Soc.* **1938**, 2, 251-259.