1125-01-538 **Fernando Q Gouvea*** (fqgouvea@colby.edu), Dept of Mathematics and Statistics, Colby College, 5836 Mayflower Hill, Waterville, ME 04901. *The Power of Power Series: Hensel and Analogy.* Preliminary report.

Hensel's creation and use of the p-adic numbers was motivated to a large extent by the analogy between number fields and function fields. This analogy led him to new ideas and results but also to at least one disastrous mistake. We will look at both, leading us to think about the power and dangers of analogy in mathematics. (Received September 06, 2016)