Everyday Practice of Science: Where Intuition and Passion Meet Objectivity and Logic
by Frederick Grinnell
Reading assignment - SED 577 - Winter 2012

Please turn in:
1. Summary notes on Section I (Ch. 1-3) and brief summaries (1-2 paragraphs) of Section II (Ch. 4-6).
2. A list of a minimum of 10 quotes that a) best represent the author's position and/or b) were the most useful to you in understanding the text.
3. A final 2-3 page reflection on your reaction to a) the content and b) its applicability to the science classroom. Please do not include a summary of the text in the reflection.

Topics to pay special attention to:
- The scientific method
- Objectivity of scientists and the community of science
- Grinnell's "two conversations"
- The purpose of scientific papers
- Fleck's "thought styles"
- Credibility
- Science textbook facts vs. real science
- Real science vs. school science
- Types of questions asked in science (biology) (descriptive vs. experimental)
- Basic vs. applied research
- The social aspect of science
- Transformation of "discovery claims" the larger community of science and beyond
- The peer-review process
- Credibility of an individual scientist (funding, etc.)
- Responses of the scientific community to discovery claims