

AOS 900 Seminar: Meteorology: Current & Classical Problems
FALL 2012, MON 2:25 pm-3:15 pm, AOSS Rm. 1039

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Course Description

This seminar is a one-time requirement for the AOS Ph.D. degree devoted to advanced study of chosen topics in Atmospheric and Oceanic Sciences. The goal is to trace the coherence and continuity of thought on these topics and understand the nature of our science and what we do as scientists. The interplay of observations, theories, and the resolution of controversies will be analyzed in their influence on the evolution of ideas. Course activity consists primarily of weekly student background reading, individual presentations, and extensive group discussions. Readings will be posted on learn@uw or handed out in class.

Recommended books:

- Kuhn, T., 1996. *The Structure of Scientific Revolutions*, 3rd edition. University of Chicago Press, 226 pp. ISBN: 978-0226458083
- Schultz, D.M., 2009. *Eloquent Science: A Practical Guide to Becoming a Better Writer, Speaker and Scientist*. American Meteorological Society, 448 pp. ISBN: 978-1878220912

9/10 Introduction, expectations, goals, sign-up for presentations

9/17 Science ethics discussion

9/24 Jean Phillips presentation on literature reviews

10/1 Science philosophy discussion

10/8 History of meteorology discussion

10/15 Science communication discussion

10/22 Faculty presentations

10/29 Student presentation #1-3

11/5 Student presentation #4-6

11/12 Student presentation #7-9

11/19 Student presentation #10-12

11/26 Student presentation #13-15

12/3 NO CLASS

12/10 Wrap up, group discussion/outing