

AOS 900 Seminar: Meteorology: Current & Classical Problems
Fall 2016, MON 2:25 pm-3:15 pm, AOSS 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 work on becoming a full-time Ph.D. dissertator and writer. The interplay of observations, theories, and the resolution of controversies will be analyzed in their influence on the evolution of each topic. 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
- Schimel, J. 2011. *Writing Science: How to Write Papers That Get Cited and Proposals That Get Funded*, Oxford U Press, 240 pp. ISBN: 978-0199760244

9/12 Introductions
9/19 Science Philosophy Part 1
9/26 Jean Phillips presentation on literature reviews
10/3 Science Communication Part 1
10/10 Science Communication Part 2
10/17 Science Philosophy Part 2
10/24 History of meteorology
10/31 Student presentation #1-2
11/7 Student presentation #3-4
11/14 Student presentation #5-6
11/21 Student presentation #7-8
11/28 Student presentation #9-10
12/5 Wrap up and discussion
12/12 NO CLASS, Annotated bibliography due online

Accommodation Policy

Students requiring class accommodations due to a learning or physical disability must present documentation from the McBurney Disability Resource Center (<http://www.mcburney.wisc.edu/>) in the first week of class. Accommodations will be made in consultation with the McBurney Center. Students who require temporary accommodations due to medical or psychological reasons should acquire documentation from University Health Services. Counseling is available from Counseling Services, University Health Services (<http://www.uhs.wisc.edu/>).