PAI 772– Science, Technology, and Public Policy
Spring 2014
Crouse-Hinds Hall, 425
Monday 9:30 AM – 12:15 PM

Prof. W. Henry Lambright
422 Crouse Hinds Hall Tel: 443-1890
Office Hours: Tuesday 2:00pm – 4:00pm (and by appointment)

Synopsis: This course discusses the interplay of science, technology, and public policy. It explores the relations of scientists and policymakers (knowledge and power). It views technology as a resource that is both a tool of policy and a factor shaping policy. Moreover, various interests promote, oppose, and seek to control science and technology to "leverage" the future. The focus of this course is on the United States, but attention is given also to other nations and their science and technology policies.

Requirements:

- Class participation;
- A 10 page book review essay. The book review essay should discuss ***all*** the various readings in terms of one, two, or three crosscutting themes, citing the readings; the essay should compare and contrast how the readings deal with these themes. Every author/editor listed below under "readings" section should be discussed at least once.
- 15 page research paper. The research paper should be on a topic of mutual agreement between student and professor. If the student has any questions about topics, he or she should contact the professor.

Under normal circumstances, each element of the requirements will count one-third of the grade.

Readings:

The following books are available at the Syracuse University Bookstore:

- Lambright, *Powering Apollo: James E. Webb of NASA*
- Linksy, *Shrinking the Policy Process: The Press and Love Canal Relocation- (Will be emailed to students)*
- Neal, et. al. *Beyond Sputnik: US Science Policy in the 21st Century*
- Teich, *Technology and the Future*
- Rao, *Shale Gas: The Promise and the Peril*
- Levi, *The Power Surge*

Also available online:

- Lambright, *Managing Big Science: A Case Study of the Human Genome Project* (available online from IBM)

COURSE SCHEDULE

Introduction	January 13	Course Introduction
	January 20	No Class-Martin Luther King Jr. Day
Politics and Science	January 27	Linsky
	February 4	Rao
Science Policy	February 10	Neal, 1-5
	February 17	Neal, 6–10
	February 24	Neal, 11–15
	March 3	Neal, 16–20
Technology and Society	March 10	*Spring break – no class*
	March 17	Teich, Selected Chapters TBA
	March 24	Teich, Selected Chapters TBA
	March 31	Teich, Selected Chapters TBA
	April 7	Levi
Leadership, Big Science, and National Policy	April 14	Lambright, *Powering Apollo*
	April 21	Lambright, *Human Genome Project*
	April 28	All theme papers due All research papers due, class discussion of papers