Science, Technology and Public Affairs  
PAF547/GLG598/BIO598/HON494  
Spring 2005  
Wednesdays,  
FDN 4440  
Professor: Dan Sarewitz  
Professor: Michael Crow

Required book: Thomas Kuhn, The Structure of Scientific Revolutions  
“Skim” Readings can be found at www.cspo.org/  
*** Indicates assignment deadline

January 19  
Class 1 — Introduction, Background, Expectations

January 26  
Class 2 — Historical Roots

February 2  
Class 3 – Policy Foundations and Political History

February 9***  
Class 4 – Philosophies of Science Policy

February 16  
Class 5 – S&T Policy Process: The Budget Obsession

February 23  
Class 6 – Science, Technology and Know-How

March 2  
Class 7 - Technology Policy

March 9  
Class 8 – The Role of Universities in the R & D Enterprise

March 16  
Spring Break – No Class

March 23***  
Class 9 – Innovation Systems

March 30  
Class 10 – Science, Technology, and Development

April 6  
Class 11 – Issues in Science and Technology Policy: The GM Food Debate

April 13 ***  
Class 12 – Issues in Science and Technology Policy: Intellectual Property

April 20  
Class 13 – Issues in Science and Technology Policy: Democracy and Science

April 27***  
Class 14 – Project Presentations
Class 1 – **Introduction, Background, Expectations**

**Required:**
- Press Release: Yes on 71, Questions and Answers, at:  
- California Stem Cell Research and Cures Initiative, Scientific Fact Sheet, at:  
- California Stem Cell Research and Cures Initiative, Research Institute Fact Sheet, at:  

Additional Readings will be distributed during class.

Class 2 - **Historical Roots**

**Required:**

**Skim:**

Class 3 - **Policy Foundations and Political History**

**Required:**
- Vannevar Bush, *Science the Endless Frontier, A Report to the President*, July 1945, at:  

President Eisenhower farewell address, 1961, at:  
**Class 4 - Philosophies of Science Policy**

**Assignment Deadline: Project Proposal Due**

**Required:**


**Skim:**


**Class 5 – S&T Policy Process: The Budget Obsession**

**Required:**


Class 6 - Science, Technology, and Know-How

Required:


Choose One:


Class 7 - Technology policy

Required:


Skim:


Class 8 - The Role of Universities

Required:


Class 9 - Innovation Systems

**Assignment Deadline: Project Draft Due**

**Required:**


Viotti, Eduardo, National Learning Systems. A New Approach on Technical Change in Late Industrializing Economies and Evidences from the Cases of Brazil and South Korea, @ [http://www2.cid.harvard.edu/cidbiotech/dp/discussion12_viotti.pdf](http://www2.cid.harvard.edu/cidbiotech/dp/discussion12_viotti.pdf)


Class 10 - Science, Technology, and Development

**Guest Speaker: Gregg Zachary**

**Required:**


Skim:


Class 11 – *Issues in Science and Technology Policy: The GM Food Debate*

Required:

http://pewagbiotech.org/resources/factsheets/display.php3?FactsheetID=2

http://www.wired.com/news/print/0,1294,38001,00.html

http://www.wired.com/news/print/0,1294,59384,00.html

http://www.wired.com/news/print/0,1294,61135,00.html

http://www.wired.com/news/print/0,1294,62349,00.html

http://www.wired.com/news/print/0,1294,63521,00.html


http://www.usda.gov/Newsroom/0033.04.html

Skim:
Cartagena Protocol on Biosafety, Text of the Protocol: Article 11. Procedure for Living Modified Organisms Intended for Direct Use as Food or Feed, or for Processing.
http://www.biodiv.org/biosafety/articles.asp?1g=0&a=bsp-11
Class 12 - **Issues in Science and Technology Policy: Intellectual Property**

**Assignment Deadline:** Project Due

**Required:**


Press, Eyal, Washburn, Jennifer, The Kept University, Atlantic Monthly v.285, n.3 Mar00


**Skim:**


Class 13 - **Issues in Science and Technology Policy: Democracy and Scientific Research**

**Required:**


Class 14 – **Final Class**

**Assignment Deadline:** Project Presentations