

# INTA 8001, Science, Technology and International Affairs

Spring 2013

Tuesday, 12:05 – 2:55  
G17 Habersham

Prof. Seymour Goodman, [goodman@cc.gatech.edu](mailto:goodman@cc.gatech.edu)  
302 Habersham, 5-1461  
Office Hours: Tuesday 3:00 – 4:30, and by appointment  
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Grades: 1) class participation (35%); 2) class policy exercise (15%); 3) semester team policy exercise (50%).

All assignments are due on the dates under which they are listed. The written papers for final projects should be available for the class to read no later than the Sunday morning preceding the presentation date.

- Richard Rhodes, *The Making of the Atomic Bomb*, 1988. There is a paperback edition in print. ISBN 0-671-65719-4
- Vannevar Bush, "Science: The Endless Frontier," 1945. This has been published and republished multiple times. Any version will do. For example: <http://www.amazon.com/Science-frontier-President-scientific-research/dp/124564422X/> For a recent assessment, see [http://sciencepolicy.colorado.edu/admin/publication\\_files/2010.24.pdf](http://sciencepolicy.colorado.edu/admin/publication_files/2010.24.pdf)
- Committee on Depicting Innovation in Information Technology, *Continuing Innovation in Information Technology*, Computer Science and Technology Board, National Research Council, National Academies Press, Washington, DC, 2012. ("tire tracks report")

The readings assigned below should be done by the date under which they are listed. Other readings will be assigned throughout the semester.

This syllabus is current as of January 6, 2013. It will change as opportunities or necessities arise.

## Week 1

Jan 8: The path/process of scientific discovery leading to the point where a realistic scientific basis existed for building an atomic bomb (and changing how the world is perceived much more generally). The development and characteristics of the international scientific community as it came to be by the late 1930s.  
Discussion of semester agenda and projects (2-4 person teams)  
Read: Rhodes, Chs 1-10

**Week 2**

Jan 15: The path to the Einstein letter and the Roosevelt decision+  
Continued discussion of the semester agenda and projects.  
Read: Rhodes Chs 10-12  
*Due: Team process charts and analyses*

**Week 3**

Jan 22: From the second Roosevelt decision to the creation of Los Alamos  
Read: Rhodes Chs 13-14  
*Due: Team process charts and analyses*

**Week 4**

Jan 29: Los Alamos to the Trinity test  
Choices of team policy exercises completed  
Read: Rhodes Chs 15-17  
*Due: Team process charts and analyses*

**Week 5**

Feb 5: Trinity to Ending World War II  
Status reports on semester projects  
Read: Rhodes Chs 18-19 and Epilogue;  
*Due: Team process charts and analyses*

**Week 6**

Feb 12: The institutionalization of R&D for the national well-being  
Nuclear weapons PTI into the Cold War (Rhodes, *Dark Sun*)  
Read: Bush, *Science: The Endless Frontier*

The next 4 weeks are a work in progress, to be completed collectively.

**Week 7**

Feb 19: Read: NRC “tire tracks” report

**Week 8**

Feb 26: Status reports on team policy exercises

**Week 9**

Mar 5: Status reports on team policy exercises

**Week 10**

Mar 12: Final briefing on the class trip to Washington

## **Week 11**

### **March 17-21<sup>st</sup> = Spring Break Trip to Washington, DC**

March 17 Fariah at CISTP will purchase airline tickets for you to Washington, DC arriving Sunday around noon. You will be sharing rooms at the Army Navy Club and each of you will put half the hotel expenses on a credit card. You will be reimbursed. Outstanding breakfasts are provided at the ANC. We will cover group dinners.

Will Foster will contact our connections in various Agencies in January. Most Federal Agencies will require some personal data on you to approve you for entrance. Each Agency has different personal data requirements. We will try and make the process as painless as possible.

**March 17 (Assemble at Army Navy Club at 3 pm on Sunday)**

**March 18 TBD**

**March 19 TBD**

**March 20 TBD**

**March 21 (Last meeting will be over at 3 pm on Thursday)**

Starting with **Week 12**, March 26 we will have 1 or 2 final team policy exercise presentations per class.

What else are we going to do, especially before the Spring break?

Regular discussions of subject matter out of the *Economist*?

A class policy exercise of “competing” teams focused on a single subject?

Individual “book reports”?

Visiting speakers?

Something else? Let the class members help decide?