

Information Technology and Public Policy

Ed Lazowska, Computer Science & Engineering, University of Washington

Steve Maurer, Goldman School of Public Policy, University of California Berkeley

Reading list and course schedule – [Version of 12/1/04](#)

9/30: Innovation incentives (Maurer)

S. Maurer and S. Scotchmer, "[Procuring Knowledge](#)," *Advances in the Study of Entrepreneurship, Innovation, and Economic Growth* **15:1** (2004)

S. Maurer and S. Scotchmer, "[Database Protection: Is It Broken and Should We Fix It](#)," *Science* (May 16, 1999)

S. Maurer, P.B. Hugenholtz and H. Onsrud, "[Europe's Database Experiment](#)," *294 Science* 789 (2001) [password protected]

10/7: The IT innovation ecosystem: universities, government, and industry

(Lazowska)

[Aspray Ch. 1](#)

NRC Computer Science & Telecommunications Board, [Innovation in Information Technology](#) (2003)

Computing Research Association Government Affairs website [Information Technology R&D](#)

10/14: Electronic voting (David Dill, Stanford)

D. Dill *et al.*, [FAQ from VerifiedVoting.org](#)

D. Dill *et al.*, [E-Voting Misconceptions from VerifiedVoting.org](#)

Caltech/MIT Voting Technology Project, [Voting: What Is, What Could Be](#) (July 2001)

T. Kohno *et al.*, "[Analysis of an Electronic Voting System](#)," *IEEE Symposium on Security and Privacy* (May 2004)

Ted Selker, "[Fixing the Vote](#)," *Scientific American* (September 17, 2004)

R. Dugger, "[How They Could Steal the Election This Time](#)," *The Nation* (July 29 2004)

10/14: Recap of 10/7, plus IT, economic growth, and productivity (Lazowska)

10/14: The Academic/Industrial Complex (Maurer)

R. Florida, "[The Role of the University: Leveraging Talent, Not Technology](#)," *Issues in Science and Technology* **15:4** (1999)

E. Press and J. Washburn, "[The Kept University](#)," *The Atlantic* (March 2000)

S. Maurer, "[Promoting and Disseminating Knowledge: The Public/Private Interface](#)," National Research Council (2002)

10/21: Technology transfer, intellectual property policies, and entrepreneurship

(Richard Newton, Berkeley)

Aspray Ch. 7

10/21: Network markets, interoperability, and standards (Maurer)

- M. Katz and C. Shapiro, "[Systems Competition and Network Effects](#)," *Journal of Economic Perspectives* 8:2 (1994)
- 10/28: Free/Open source software** (Bob Gomulkiewicz, University of Washington, plus Maurer and Lazowska)
- A. Mockus, R. Fielding and J. Herbsleb, "[Two Case Studies of Open Source Software Development: Apache and Mozilla](#)," *ACM Transactions on Software Engineering and Methodology* 11:3 (2002)
- J. Vega, "[Open Source Security: Still a Myth](#)," ONLamp.com (9/16/2004)
- R. Gomulkiewicz, "[De-Bugging Open Source Software Licensing](#)," *University of Pittsburgh Law Review* 64:75 (2002)
- R. Gomulkiewicz, "[How Copyleft Uses License Rights to Succeed in the Open Source Software Revolution and the Implications for Article 2B](#)," 36 *Hous. L. Rev.* 179 (2002)
- E. von Hippel, "[Open source software projects as user innovation networks](#)," MIT Sloan School of Management (June 2002)
- D. Bollier, *The Power of Openness*, Berkman Center Research Publication No. 1999-02
- S. Maurer, A. Rai and A. Sali, "[Finding Cures for Tropical Diseases: Is Open Source An Answer?](#)
- 11/4: Antitrust** (Maurer)
Aspray Ch. 8
[United States Court of Appeals for the District of Columbia Circuit, No. 00-5212, United States of America, Appellee, v. Microsoft Corporation, Appellant Memorandum by Acting Assistant Attorney General Abbott B. Lipsky, Jr., explaining his decision to dismiss the government's antitrust lawsuit against IBM \(January 1982\)](#)
- 11/11: No class, Veteran's Day**
- 11/18: Legislation: Spam; DMCA and DRM; P2P and copyright** (Ed Felten, Princeton)
- D. Fallows, *Spam: How It Is Hurting Email and Degrading Life on the Internet*, Pew Internet & American Life Project (October 2003)
- P. Samuelson, "[Why the Anticircumvention Regulations Need Revision](#)," *CACM* 42:9 (1999) [password protected]
- P. Biddle *et al.*, "[The Darknet and the Future of Content Distribution](#)," *Proc. ACM DRM Workshop* (2002)
- [United States Court of Appeals for the Ninth Circuit, No. 03-55894, MGM v. Grokster](#) (2004)
- 11/25: No class, Thanksgiving**

- 12/2: IT workforce issues** (Brad DeLong, Berkeley, and Lazowska)
 Aspray Ch. 10
 J. Sargent, *The Adequacy of the U.S. S&E Workforce* (February 2004)
 “[Survey: Outsourcing – A World of Work](#),” *The Economist* (11/11/04)
- 12/2: Computer security and critical infrastructures** (Lazowska)
 Aspray Ch. 5
 NRC Computer Science & Telecommunications Board, *Information Technology for Counterterrorism* (2003)
 NRC Computer Science & Telecommunications Board, *Cybersecurity Today and Tomorrow* (2002)
 Computing Research Association Government Affairs website [Cybersecurity R&D](#)
- 12/9: ICT and Rural Development** (Tapan Parikh, University of Washington; Eric Brewer, UC Berkeley)
 Bhoomi: Online Delivery of Land Titles in Karnataka India, World Bank Case Study, Rajeev Chawla and Subhash Bhatnagar, December 2001
http://www1.worldbank.org/publicsector/egov/bhoomi_cs.htm
 What Works: ITC's E-Choupal and Profitable Rural Transformation, What Works Case Study, Kuttayan Annamalai and Sachin Rao, August 2003
http://www.digitaldividend.org/pdf/echoupal_case.pdf
 Bindu Ananth and Bastavee Barooah, Leveraging technology for micro banking, January 2004, http://www.i4donline.net/issue/jan04/leveraging_full.htm
 Design Axes for the Indian Language Computing Market, Joseph Koshy, Indic-Computing Project, 2002, <http://indic-computing.sourceforge.net/designaxes/index.html>
 Grassroots ICT Projects in India: Some Preliminary Hypotheses, Kenneth Keniston, MIT, 2002,
http://web.mit.edu/~kken/Public/PDF/ASCI_Journal_Intro_ASCI_version.pdf
 Critical Success Factors for Rural ICT Projects in India: A Study of N-Logue Projects in Pabal and Baramati, Vivek Dhawan, Masters Thesis, IIT-Bombay School of Management, March 2004
<http://www.cs.washington.edu/education/courses/590dw/CurrentQtr/papers/VivekDhawan.doc> (Optional)
 Social, Governance and Economic Impact Assessment of Information and Communication Technology Interventions in Rural India, Rajendra Kumar, Masters Thesis, MIT Program in City Planning, June 2004
http://www.cs.washington.edu/education/courses/590dw/CurrentQtr/papers/Rajendra_Kumar_thesis.pdf (Optional)
- SHGs and Microfinance in India**
 Can Rural Banks Reduce Poverty? Evidence from the Indian Social Banking Experiment, Rohini Pande and Robin Burgess, American Economic Review, 2004
http://www.econ.yale.edu/~rp269/website/papers/dobanksmatteraer_rr1.pdf

Linking Banks and (Financial) Self-Help Groups in India - An Assessment, Dr. Erhard W. Kropp and Dr. B.S. Suran, November 2002

<http://www.nabard.org/roles/mcid/erhardkropp.pdf>

Grameen Bank Groups and Self-help Groups; what are the differences?, Malcolm Harper, PlanetFinance, 2002 <http://www.alternative-finance.org.uk/rtf/grameenbankgroups.rtf> (Optional)

Design Studies for a Financial Management System for Micro-credit Groups in Rural India, Tapan Parikh, Kaushik Ghosh, Apala Chavan, Puneet Syal and Sarit Arora, November 2003

<http://www.cs.washington.edu/homes/tapan/papers/p0314-parikh.pdf>
(Optional)

Additional topics:

Internet governance and use, including viruses, worms, DDoS, pornography, community standards

Aspray Ch. 3 and 4

Privacy and encryption

Aspray Ch. 6

NRC Computer Science & Telecommunications Board, [*IDs – Not That Easy*](#)