Committee on Energy and Commerce
U.S. House of Representatives

Witness Disclosure Requirement - "Truth in Testimony"
Required by House Rule XI, Clause 2(g)(5)

1. **Your Name:** Matthew Blaze

2. **Your Title:** Assoc. Professor

3. **The Entity(ies) You are Representing:** Self

4. **Are you testifying on behalf of the Federal, or a State or local government entity?** Yes [✓ No]

5. **Please list any Federal grants or contracts, or contracts or payments originating with a foreign government, that you or the entity(ies) you represent have received on or after January 1, 2013. Only grants, contracts, or payments related to the subject matter of the hearing must be listed.**

   N/A

6. **Please attach your curriculum vitae to your completed disclosure form.**

Signature:[redacted] **Date:** 4/19/2016

Matthew Blaze

University Of Pennsylvania
Department of Computer and Information Sciences
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[redacted]

Research Interests

Computer and Network Security, Cryptographic Algorithms, Applications of Cryptography, Secure Hardware, Privacy, Public Policy.

Education

Princeton University, Ph.D., Computer Science, January 1993.
Thesis: Caching in Large-Scale Distributed File Systems

Princeton University, M.A., Computer Science, June 1989.

Columbia University, M.S., Computer Science, May 1988.

City University of New York (CUNY Baccalaureate / Hunter College) B.S., *Summa Cum Laude*, January 1986.

Professional Experience

University of Pennsylvania, Philadelphia, PA. January 2004 – Present. Associate Professor of Computer and Information Sciences. Conduct research and graduate and undergraduate teaching.

AT&T Bell Laboratories / AT&T Research, NJ. September 1992 – December 2003. Research Consultant / Distinguished Member of Technical Staff. Conducted research in cryptology and security, with emphasis on systems and architectural aspects of security and trust in large-scale computing and communication systems. Conceived of, initiated, and was first member of Secure Systems Research Department, which has grown to include eight researchers. Served as technical advisor to AT&T management and various government and legislative offices on cryptology and network security policy.

University of Pennsylvania, Philadelphia, PA. June 1998 – December 2003. Adjunct Associate Professor of Computer and Information Sciences. Conducted graduate courses in security and cryptography; thesis advisor for PhD students.

Columbia University, New York, NY. January 1994 – May 1997. Adjunct Faculty in Computer Science. Conducted graduate courses in secure systems and computer networking.

Bellcore, Morristown, NJ. July 1986 – September 1988. Summer Member of Technical Staff and Consultant.

Hunter College, New York, NY. February 1986 – June 1988. Adjunct Lecturer of Computer Science.

Recent Professional Distinctions and Government Service

Petitioned for and Granted DMCA exemption to permit software security research, US Copyright Office, Library of Congress, 2015.

Gave written and oral testimony before the Committee on Government Reform, US House of Representatives. April 2015.

Special consultant to the US Federal Trade Commission. 2014-present.

Gave written and oral testimony before the Committee on the Judiciary, US House of Representatives. April 2013.

Gave written testimony before the Committee on the Judiciary, U.S. Senate. July, 2011.

Gave written and oral testimony before the Subcommittee on the Constitution, Civil Rights and Civil Liberties, Committee on the Judiciary, U.S. House of Representatives. June, 2010.

Steering Committee, USENIX Security conference. 2012-present.

Board of Directors, USENIX Association, 2004-2012.

Review Team Leader, Ohio Review of ES&S Voting system, 2007-2008.

Review Team Leader, California "Top to Bottom Review" of Sequoia Voting System source code, 2007.

Panel member, National Academy of Sciences / National Research Council study on the FBI Trilogy system, 2003-2004.

Recent Media

Featured on *Last Week Tonight with John Oliver,* March 2016.

Profiled in *Politico* ("The Crypto Warrior"), December 2015.

Named and profiled among 2015 "Internet Hereos" by *Daily Dot.*

Quoted and used as source on computer security and policy by numerous publications, including the New York Times, Washington Post, The Economist, etc.

Patents

1. Matthew A. Blaze, John Ioannidis, Angelos Keromytis. "Microbilling using a trust management system." US Patent No. 7,650,313 (Jan. 19, 2010).
2. Matthew A. Blaze, John Ioannidis, Angelos Keromytis. "System and method for microbilling using a trust management system." US Patent No. 6,789,068 (Sept. 7, 2004).
3. Matthew A. Blaze, Joan Feigenbaum, Martin Strauss. "Method and apparatus for compliance checking in a trust management system." US Patent No. 6,256,734 (July 3, 2001).
4. Matthew A. Blaze. " System and method for constructing block ciphers." US Patent No. 6,005,944 (Dec. 21, 1999).
5. Matthew A. Blaze, "System and method for constructing a cryptographic pseudo random bit generator." US Patent No. 5,909,494 (June 1, 1999).

6. Matthew A. Blaze. “Escrow key management system for accessing encrypted data with portable cryptographic modules.” US Patent No. 5,721,777 (Feb. 24, 1998).
7. Matthew A. Blaze. “High-bandwidth encryption system with low-bandwidth cryptographic modules.” US Patent No. 5,696,823 (Dec. 9, 1997).
8. Matthew A. Blaze. “Translation indicator for database-queried communications services.” US Patent No. 5,574,781 (Nov. 12, 1996).

Selected Written Testimony, Op-eds, and Special Reports

1. Blaze, M. *A Key Under the Doormat Isn't Safe.* The Washington Post. December 15, 2015.
2. Blaze, M. *Software Design Mandates and Backdoors.* Written and oral testimony before the Committee on Government Reform, US House of Representatives April 2015.
3. Blaze, M. *NSA Revelations: the Middle Ground.* The Guardian. January 6 2014.
4. Blaze, M. *How Worried Should We Be About NSA-RSA Scheming?* Wired. December 27, 2013.
5. Blaze, M. *The NSA is Just Collecting Metadata (And You Should Still Worry).* Wired. June 19, 2013.
6. Adida, et al. *CALEA II: Risks of Wiretap Modifications to Endpoints.* CDT Report. May 2013.
7. Blaze, M. and Landau, S. *The FBI Needs Hackers, Not Backdoors.* Wired. January 14, 2013.
8. Blaze, M. *ECPA Reform and Geolocation..* Written and oral testimony before the Committee on the Judiciary, US House of Representatives. April 2013.
9. Blaze, M. *Embarrassing the Wrong People.* Wired. November 27, 2012.
10. Blaze, M. *Location-Based Technologies.* Written testimony before the Committee on the Judiciary, U.S. Senate. July, 2011.
11. Blaze, M. *ECPA Reform and the Revolution in Location-Based Technologies and Services.* Written and oral testimony before the Subcommittee on the Constitution, Civil Rights and Civil Liberties, Committee on the Judiciary, U.S. House of Representatives. June 24, 2010.
12. McDaniel, P., Blaze, M. and Vigna, G. (Team Leads) *et al.* *EVEREST: Evaluation and Validation of Election-Related Equipment, Standards and Testing.* State of Ohio Secretary of State. December 2007.
13. Blaze, M. *et al Source Code Review of the Sequoia Voting System.* California Secretary of State. July 2007.
14. J. McGroddy and H. Lin (eds). *A Review of the FBI's Trilogy Information Technology Modernization Program.* National Research Council. National Academies Press. 2004.
15. Blaze, M. (ed). *Proceedings, USENIX Security 2004.* USENIX 2004.

16. Blaze, M. (ed). *Proceedings, Financial Cryptography 2002..* LNCS 2357, 2003.
17. Blaze, M., Feigenbaum, J., Ioannidis, J., and Keromytis, A. "The Role of Trust Management in Distributed Systems Security." Chapter in *Secure Internet Programming: Security Issues for Mobile and Distributed Objects.* (Vitek and Jensen, eds.) Springer-Verlag, 1999.
18. Blaze, M. "Cryptography is not Security." Appeared as "Afterward" in Schneier, B. *Applied Cryptography, 2/e.* Wiley, 1996.
19. Blaze, M. "Protocol Failure in the Escrowed Encryption Standard." In *Building in Big Brother.* L. Hoffman, ed. Springer, 1995..

Journal Articles

1. Bellovin, S., Blaze, M., Landau, S. and Pell, S. "It's Too Complicated: The Technological Implications of IP-Based Communications on Content/Non-Content Distinctions and the Third Party Doctrine." *Harvard Journal of Law and Technology.* (Accepted for publication.) 2016.
2. Bellovin, S., Blaze, M. and Landau, S. "Insecure Surveillance: Technical Issues with Remote Computer Searches." *IEEE Computer.* March 2016.
3. Abelson, H., Anderson, R., Bellovin, S., Benaloh, J., Blaze, M., Diffie, W., Gilmore, J. Green, M., Landau, S., Neumann, P., Rivest, R., Schiller, J., Schneier, B., Specter, M., Weitzner, D. "Keys Under Doormats." *J. Cybersecurity.* November, 2015.
4. Abelson, H., Anderson, R., Bellovin, S., Benaloh, J., Blaze, M., Diffie, W., Gilmore, J. Green, M., Landau, S., Neumann, P., Rivest, R., Schiller, J., Schneier, B., Specter, M., Weitzner, D. "Inside Risks: Cryptographic Backdoors." *CACM.* October, 2015.
5. Aviv, A., Sherr, M., Blaze, M., Smith, J. "Privacy-Aware Message Exchanges for HumaNets." *Computer Communication.* June 2014.
6. Sherr, M., Gill, H., Saeed, T., Mao, A., Marczak, W., Zhou, W., Loo, B., and Blaze, M.. "The Design and Implementation of the A^3 Application-Aware Anonymity System." *Computer Networks.* Feb. 2014.
7. Bellovin, S., Blaze, M. Clark, S., Landau, S. "Lawful Hacking: Using Existing Vulnerabilities for Wiretapping on the Internet.". *Northwestern University Journal of Technology and Intellectual Property.* Vol 12, Issue 1. February 2014.
8. Bellovin, S., Blaze, M. Clark, S., Landau, S. "Going Bright: Wiretapping Without Weakening Infrastructure." IEEE *Security and Privacy.* Jan/Feb 2013.
9. Blaze. M. Ioannidis, J., Kermomytis, A., Malkin, T., and Rubin, A. Anonymity in Wireless Broadcast Networks. *International Journal of Network Security (IJNS),* vol. 8, no. 1, pp. 37 - 51, January 2009.
10. Blaze, M., Kannan, S., Lee I., Sokolsky, O., Smith, J., Keromytis, A. and Lee, W. "Dynamic Trust Management." *IEEE Computer.* vol. 42, no. 2, pp. 44 - 52, February 2009.

11. Bellovin, S., Blaze, M., Diffie, W., Landau S., Neumann, P., and Rexford, J. Risking Communications Security: Potential Hazards of the *Protect America Act. IEEE Security and Privacy.* Vol. 6, No. 1, January/February 2008. pp. 24-33.

12. Cronin, E., Sherr, M. and Blaze, M. "On the Reliability of Current Generation Network Eavesdropping Tools." *International Journal of Security and Networks.* 3(2):103-113, 2008.

13. Bellovin, S., Blaze, M., Diffie, W., Landau S., Neumann, P., and Rexford, J. Internal Surveillance, External Risks. *Communications of the ACM.* Vol. 50, No. 12, December 2007, Inside Risks.

14. Sherr, M., Cronin, E., Clark, S. and Blaze, M. "Signaling vulnerabilities in wiretapping systems." *IEEE Security and Privacy.* November/December 2005.

15. Aiello, W., Bellovin, S.M., Blaze, M., Canetti, R., Ioannidis, J., Keromytis, A., and Reingold, O. "Just Fast Keying: Secure Key Exchange for a Hostile Internet." *ACM Transactions on Information and System Security (TISSEC).* Vol 7. no 2, pp. 1 - 32, May 2004. (Special invited submission from *CCS 2002* paper.)

16. Blaze, M. "Cryptology and Physical Security: Rights Amplification in Master-Keyed Mechanical Locks." *IEEE Security and Privacy.* March-April 2003.

17. Blaze, M., Ioannidis, J, Keromytis, A. "Trust Management for IPsec." *ACM Transactions on Information and System Security (TISSEC).* vol. 5, no. 2, pp. 1 - 24, May 2002. (Special invited submission from *NDSS 2001* paper.)

18. Blaze, M. and Bellovin, S.M. "Tapping, Tapping on my Network Door." *Inside Risks 124, CACM.* October 2000.

19. Abelson, H., Anderson, R., Bellovin, S., Benaloh, J., Blaze, M., Diffie, W., Gilmore, J., Neumann, P., Rivest, R., Schiller, J., and Schneier, B. "The Risks of Key Recovery, Key Escrow and Trusted Third Party Encryption." CDT Policy Paper. May 1997. *(report editor).* Appeared in *World Wide Web Journal* (1997).

20. Blaze, M., Feigenbaum, J., Resnick, P., and Strauss, M. "Managing Trust in an Information-Labeling System." *European Transactions on Telecommunications* 8 (1997). (Special issue of selected papers from the 1996 Amalfi Conference on Secure Communication in Networks.)

21. Feigenbaum, J., Rudich, S., Blaze, M., and McCurley, K. "Security and Privacy in the Information Economy." *Proceedings of the National Academy of Sciences,* 94 (1997), pp. 2789-2792.

22. Blaze, M., Lacy, J., London, T.B., and Reiter, M. "Issues and Mechanisms for Trustworthy Systems: Creating Transparent Mistrust." *AT&T Tech. J.* September/October 1994.

23. Robinson, V.B., Frank, A., and Blaze, M. "Expert Systems and Geographic Information Systems." *J. Surveying Engineering.* October 1986.

Refereed Conference and Refereed Workshop Publications

1. Bellovin, S., Blaze, M., Landau, S. and Pell, S. "It's Complicated: Separating Metadata from Content in Modern Communications Systems." *Privacy Law Scholars Conference.* May 2015.
2. S. Clark, M. Collis, M. Blaze and J. Smith. Smearing Fingerprints: Changing the Game of Web Tracking with Differential Privacy. *Security Protocols Workshop (SPW).* April 2015.
3. S. Clark, M. Collis, M. Blaze and J. Smith. Moving Targets: Security and Rapid Release in Firefox. *ACM CCS 2014.* November 2014.
4. A. Aviv, B. Sapp, M. Blaze and J. Smith. Practicality of Accelerometer Side Channels on Smartphones. *ACSAC 2012.* December 2012.
5. A. Aviv, M. Sherr, M. Blaze and J. Smith. Privacy-Aware Message Exchanges for Geographically-Routed Human Movement Networks. *ESORICS 2012.* September 2012.
6. S. Clark, C. Wacek, M. Blaze, B. Loo, M. Sherr, C. Shields, J. Smith. Collaborative Red Teaming for Anonymity System Evaluation. *CSET 2012.* August 2012.
7. S. Clark, M. Blaze and J. Smith,.The Casino and the OODA Loop: Why our protocols always fail. *Security Protocols 2012.* April 2012. (Winner of Rodger Needham memorial best paper award).
8. M. Blaze. Key Escrow from a Safe Distance. *ACSAC 2011.* (Special invited "Classic Paper Retrospective" submission.)
9. S. Clark, T. Goodspeed. P. Metzger, Z Wasserman, Kevin Xu, and M. Blaze. Why (Special Agent) Johnny (Still) Can't Encrypt: A Security Analysis of the APCO P25 Two-Way Radio System. *Usenix Security 2011.* San Francisco. August 2011. (Winner of "Outstanding Paper" award.)
10. S. Clark, T. Goodspeed, P. Metzger, and M. Blaze. One-Way Cryptography. *Security Protocols Workshop (SPW '11).* Cambridge, UK. April 2011.
11. S. Clark. S. Frei, M. Blaze and J. Smith. Familiarity Breeds Contempt: The Honeymoon Effect and the Role of Legacy Code in Zero-Day Vulnerabilities. *ACSAC 2010.* Austin, TX. December 2010.
12. A. Aviv, M. Sherr, M. Blaze, and J. Smith. Evading Cellular Data Monitoring with Human Movement Networks. *5th Usenix Workshop on Hot Topics in Security (Hotsec 2010).* Washington, DC. August 2010.
13. A. Aviv, K. Gibson, E. Mossop, M. Blaze, and J. Smith. Smudge Attacks on Smartphone Touch Screens. *4th Usenix Workshop on Offensive Technology (WOOT 2010).* Washington, DC. August 2010.
14. S. Clark, M. Blaze, J. Smith. Is There a Honeymoon Effect for Protocols? *Security Protocols Workshop (SPW '10).* Cambridge, UK. April 2010.
15. M. Sherr, A. Mao, W. Marczak, W. Zhou, M. Blaze, B. Loo. A^3: An Extensible Platform for Application-Aware Anonymity. *17th Network and Distributed Systems Security Symposium (NDSS).* San Diego. February 2010.

16. M. Sherr, G. Shah, E. Cronin, S. Clark and M. Blaze. Can They Hear Me Now? A Security Analysis of Law-Enforcement Wiretaps. *16th ACM Conference on Computer and Communications Security (CCS).* Chicago. November 2009.

17. M. Sherr and M. Blaze. Application Containers without Virtual Machines. *2nd Workshop on Virtual Machine Security (VMSec).* Chicago. November 2009.

18. G. Shah and M. Blaze. Covert Channels through External Interference. *3rd USENIX Workshop on Offensive Technology (WOOT 2009).* Montreal. August 2009.

19. M. Sherr, M. Blaze, B. Loo. Scalable Link-Based Relay Selection for Anonymous Routing. *9th Privacy Enhancing Technologies Symposium (PETS 2009).* August 2009.

20. M. Sherr, M. Blaze, B. Loo. Veracity: Practical Secure Network Coordinates via Vote-Based Agreements. *USENIX Annual Technical Conference.* San Diego. June 2009.

21. A. West, A. Aviv, J. Chang, V. Prabhu, M. Blaze, S. Kannan, I. Lee, J. Smith, O. Sokolsky. QuanTM: A Quantified Trust Management System. *Proc. EuroSec 09.* pp 28-35. Nuremburg, Germany.

22. Aviv, A., *et al.* Security Evaluation of the ES&S Voting Machines and Election Management System. *Third USENIX/ACCURATE Electronic Voting Technology Workshop (EVT '08).* August 2008.

23. Sherr, M., Loo, B., and Blaze, M. Veracity: A Fully Decentralized Service for Securing Network Coordinate Systems. *7th International Workshop on Peer-to-Peer Systems (IPTPS 2008).* February 2008.

24. Sherr, M., Loo, B., and Blaze, M. Towards Application-Aware Anonymous Routing. *Second Workshop on Hot Topics in Security (HotSec07).* August 2007.

25. Sherr, M. Cronin, E. and Blaze, M. Measurable Security through Isotropic Channels. *15th Security Protocols Workshop.* April 2007 (LNCS).

26. Shah, G., Molina, A., and Blaze, M. "Keyboards and Covert Channels." *USENIX Security 2006.* Vancouver, BC. August 2006. *(awarded best student paper.)*

27. Anand, M, Cronin, E., Sherr, M., Blaze, M. and Ives, Z. "Sensor Network Security: More Interesting Than You Think." *HotSec 2006.* Vancouver, BC. August 2006.

28. Cronin, E., Sherr, M., and Blaze, M. "Toward Compose-able Security Metrics." *Proc. 2006 Security Protocols Workshop.* Cambridge 2006.

29. Cronin, E., Sherr, M. and Blaze, M. "On the Reliability of Current Generation Network Eavesdropping Tools." *Second Annual IFIP WG 11.9 International Conference on Digital Forensics*, Orlando, Florida. January 2006. (Selected for invited submission for International Journal of Security and Networks, special issue on Network Forensics.)

30. Cronin, E., Sherr, M., and Blaze, M. "Listen too closely and you will be confused." *Proc. 2005 Security Protocols Workshop.* Cambridge 2005 (LNCS).

31. Blaze, M. "Toward a broader view of security protocols." *12th Cambridge Security Protocols Workshop.* April, 2004 (LNCS).

32. Blaze, M., Ioannidis, J., Ioannidis, S., Keromytis A., Nikander P., and Prevelakis, V. "TAPI: Transactions for Accessing Public Infrastructure." *Proceedings of the 8th IFIP Personal Wireless Communications (PWC) Conference.* pp. 90 - 100. Venice, Italy. September 2003.

33. Blaze, M., Ioannidis, J., and Keromytis, A. "Experience with the KeyNote Trust Management System: Applications and Future Directions." Proc. *1st International Conference on Trust Management.* pp. 284 - 300. Heraclion, Greece. May 2003.

34. Aiello, W., Bellovin, S.M., Blaze, M., Canetti, R., Ioannidis, J., Keromytis, A., and Reingold, O. "Efficient, DoS-Resistant, Secure Key Exchange for Internet Protocols." Proc. *9th ACM International Conference on Computer and Communications Security (CCS).* pp. 48 - 58. Washington, DC. November 2002.

35. Bellovin, S.M., Blaze, M., Ioannidis, J., and Keromytis, A. "JFK: Efficient, DoS Resistant Secure Key Exchange for the Internet." *Cambridge Workshop on Security Protocols.* Cambridge UK. April 2001.

36. Blaze, M., Ioannidis, J, and Keromytis, A. "Offline Micropayments without Secure Hardware." Proc. *Financial Cryptography 2001.* Grand Cayman. February 2001.

37. Blaze, M., Ioannidis, J, and Keromytis, A. "Trust Management for IPSEC." Proc. *ISOC Symposium on Network and Distributed Systems Security (NDSS) 2001*, San Diego, CA. February 2001.

38. Blaze, M., Ioannidis, J. and Keromytis, A. "Trust Management and Network-Layer Security Protocols." *1999 Cambridge Protocols Workshop.* Cambridge, UK. April 1999.

39. Blaze, M., Feigenbaum, J, and Naor, M. "A Formal Treatment of Remotely Keyed Encryption." *Proceedings of EUROCRYPT '98,* Helsinki. May 1998. Lecture Notes in Computer Science. Springer, 1998.

40. Blaze, M., Bleumer, G., and Strauss, M. "Atomic Proxy Cryptography and Protocol Divertibility." *Proceedings of EUROCRYPT '98,* Helsinki. May 1998. Lecture Notes in Computer Science. Springer, 1998.

41. Blaze, M, Feigenbaum, J., and Strauss, M. "Compliance Checking in the PolicyMaker Trust Management System." *Proceedings of the 2nd Financial Crypto Conference,* Anguilla. February 1998. Lecture Notes in Computer Science, Springer, 1998.

42. Blaze, M. "Oblivious Key Escrow." *First International Conference on Information Hiding.* Cambridge, England. June 1996.

43. Blaze, M., Feigenbaum, J., and Lacy, J. "Decentralized Trust Management." *1996 IEEE Conference on Security and Privacy.* Oakland, CA, May 1996.

44. Blaze, M. "High-Bandwidth Encryption with Low Bandwidth Smartcards." *Third Cambridge Conference on Fast Software Encryption.* Cambridge, England, February 1996.

45. Blaze, M. and Bellovin, S. "Session-Layer Encryption." *Proc. USENIX Security Symp.* Salt Lake City, June 1995.

46. Blaze, M. and Schneier, B. "The MacGuffin Block Cipher Algorithm." *1994 Leuven Workshop on Fast Software Encryption.* Leuven, Belgium, December 1994.

47. Blaze, M. “Protocol Failure in the Escrowed Encryption Standard.” *Proc. 2nd ACM Conference on Computer and Communications Security.* Fairfax, VA., November 1994.
48. Blaze, M. “Key Management in an Encrypting File System.” *Proc. Summer 1994 USENIX Tech. Conf.* Boston, MA, June 1994.
49. Blaze, M. “A Cryptographic File System for Unix.” *Proc. 1st ACM Conference on Computer and Communications Security.* Fairfax, VA., November 1993
50. Ioannidis, J. and Blaze, M. “Architecture and Implementation of Network-Layer Security Under Unix.” *Proc. USENIX Security Symp.* Santa Clara, CA, October 1993.
51. Blaze, M. “Transparent Mistrust: OS Support for Cryptography-in-the-Large.” *Proc. 4th Workshop on Workstation Operating Systems.* Napa, CA, October 1993.
52. Blaze, M. and Alonso, R. “Dynamic Hierarchical Caching in Large-Scale Distributed File Systems.” *Proc. 12th Intl. Conf. on Distributed Computing Systems.* Yokohama, Japan, June 1992; also available as *CS-TR-353-91,* Department of Computer Science, Princeton.
53. Blaze, M. “NFS Tracing by Passive Network Monitoring.” *Proc. USENIX Winter 1992 Conference.* San Francisco, January 1992.
54. Blaze, M. and Alonso, R. “Long-Term Caching Strategies for Very Large Distributed File Systems.” *Proc. USENIX Summer 1991 Conference.* Nashville, TN, June 1991. (Winner of best paper and best student paper awards.)
55. Blaze, M. and Cameron, E.J. “D*: A System for the Automatic Animation of IC* Programs.” *Proc. CASE ’88.* Cambridge, MA, June 1988.
56. Robinson, V.B., Thongs, D., and Blaze, M., “Natural Language in Geographic Data Processing Systems.” *Proc. Conference on Advanced Technology for Monitoring and Processing Global Environmental Data.* London, September 1985.
57. Robinson, V.B., Thongs, D., and Blaze, M., “Machine Acquisition and Representation of Natural Language Concepts for Geographic Information Systems.” *Proc. Pittsburgh Conference on Modeling and Simulation.* Pittsburgh, April 1985.

Internet RFCs

1. Blaze, M., Keroymytis, A., Richardson, M., and Sanchez, L. “IP Security Policy Requirements.” *RFC-3586.* IETF. August 2003.
2. Blaze, M., Ioannidis, J, and Keromytis, A. “DSA and RSA Key and Signature Encoding for the KeyNote Trust Management System.” *RFC-2792.* IETF. March 2000.
3. Blaze, M., Feigenbaum, J., Ioannidis, J. and Keromytis, A. “The KeyNote Trust Management System, Version 2.” *RFC-2704.* IETF. September 1999.
4. Ioannidis, J., Blaze, M. and Karn, P. “The swIPe IP Security Protocol.” *Internet Draft.* August 1993.