

KRISTIE I. MACRAKIS

Professor

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I. Earned Degrees

Ph.D. Harvard University, History of Science.

M.A. Harvard University, History of Science.

B.A. Oberlin College, History.

II. Employment History

Full Professor, Georgia Institute of Technology, Atlanta, January 2009-Present.

Assistant to Full Professor, Michigan State University (Tenured 1997), 1991-2008.

Chancellor's Scholar, Alexander von Humboldt Foundation, 1990-1991.

Lecturer on the History of Science, Harvard University, 1989-1990.

III. Honors and Awards

A. Post-Doctoral

1. Major External Grants/Fellowships

Woodrow Wilson Center, Fellow, 2015-2016.

National Security Agency (NSA) Scholar-in-Residence, 2010-11
(declined)

National Science Foundation Grant (NSF), 1998-2002 (\$75,000).

Fulbright Senior Scholar Award, 1998-1999 (Salary).

Institute for Advanced Study, Princeton, Member, 1993-1994 (Salary).

Alexander von Humboldt Foundation, Transatlantic Cooperative
Research Grant, 1993-1996.

Alexander von Humboldt Foundation, Chancellor's Scholarship for
Prospective U.S. Leaders, 1990-1991, 2003-2004.

2. Minor

Small Grants for Research (SGR), Ivan Allen College, Georgia
Institute of Technology, 2015-2016.

Chemical Heritage Foundation, Short-Term Travel Grant, 2008.

Internal Grant, 2007-2008.

Intramural Research Grant Program (IRGP), 2003-2005 (\$20,000).

All-University Research Initiation Grant (AURIG), 1992, 1997.

Department of History Competition, Sesquicentennial Research Grant, 2006, 2007.

B. Honors

Class of 1969 Teaching Scholar, Georgia Institute of Technology, 2012-2013.

Junior Meritorious Faculty Award, Sigma Xi, 1999.

Sigma Xi, Full Member, 1992-Present.

Member of the New York Academy of Sciences, 1987-1997.

Who's Who in America.

C. Doctoral (Select)

American Association of University Women (AAUW) Fellowship, 1987-1988.

National Science Foundation (NSF) Dissertation Grant, 1987-1988.

German Academic Exchange (DAAD) Summer Research Grant, 1987.

International Research and Exchanges Board (IREX) Fellowship, 1986.

Social Science Research Council Fellowship (SSRC), 1984-1986.

Rockefeller Research Grant, 1983, 1986.

IV. Research, Scholarship and Creative Activities

A. Published Books, Book Chapters, and Edited Volumes

1. Books

1. *Prisoners, Lovers and Spies: the Story of Invisible Ink from Herodotus to Al-Qaeda* (New Haven, CT: Yale University Press, 2014, 2015). [Italian, Chinese, Estonian Translations].
2. *Seduced by Secrets: Inside the Stasi's Spy-Tech World* (New York: Cambridge University Press, 2008, 2014 (NIP, New Preface). [German, Slovak, & Czech Translations] German Title: *Die Stasi-Geheimnisse: Methode und Technik der DDR-Spionage* (München: Herbig, 2009). *History Book Club* Featured Selection.
3. *Science under Socialism: East Germany in Comparative Perspective* (Cambridge: Harvard University Press, 1999). Co-editor and Author with Dieter Hoffmann. Wrote c. 100 pages, 4 chapters.
(Naturwissenschaft und Technik in der DDR (Berlin: Wiley/Akademie Verlag, 1997). Co-editor and Author with Dieter Hoffmann. Very different German edition.)
4. *Surviving the Swastika: Scientific Research in Nazi Germany* (New York: Oxford University Press, 1993). Named Outstanding Academic Book for 1995 by *Choice Magazine*.

2. Edited Volumes

1. *East German Foreign Intelligence: Myth, Reality and Controversy* (London: Routledge, 2010). Co-editor with Thomas Wegener Friis, Helmut Müller-Enbergs. Introduction & one chapter. Paperback, 2011.

B. Refereed Articles(*), Refereed Book Chapters (*), and Popular Magazine Articles

1. "Writing about Espionage Secrets." *Secrecy and Society*, 2018, 2 (1),7, 1-18. *
2. "Can a Tunnel Become a Double Agent -- for the Soviets?" *International Journal of Intelligence and Counterintelligence*, March 2018, 31: 2, 374-386.*
3. "Markus Wolf: From the Shadows to the Limelight." In *Spy Chiefs: Intelligence Leaders in Europe, the Middle East, and Asia*. Editors, Paul Maddrell, Christopher Moran, Ioanna Iordanou, Mark Stout. (Washington, DC: Georgetown University Press), 2018, 145-165.*
4. "Getting to the Whole Truth about America's Torture of Suspected Terrorists." *Newsweek*, 9 September, 2017.
5. "L'histoire secrete de l'encre invisible." *Pour La Science* no. 460, February 2016.
6. "The Cold War is Over but Spying Continues." *Newsweek*, 30 November 2015.
7. "The Hidden Past of Invisible Ink." *American Scientist* 102, no. 3 (May-June 2014): 198-205.
8. "Invisible Ink Revealed: Concept, Context, and Chemical Principles of Cold War Writing." *Journal of Chemical Education* 89 (March 2012): 529-32. First Author (Macrakis, Bell, Perry and Sweeder).*
9. "Technophilic Hubris and Espionage Styles during the Cold War." *Isis* 101 (2010): 378-85.
10. "Confessing Secrets: Secret Communication and the Origins of Modern Science." *Intelligence and National Security* 25, no. 2 (2010): 183-97.*
11. "Science and the Stasi." *Nature* 461 (October 2009): 594-95. (Commissioned Essay).
12. "Ancient Imprints: Fear and the Origins of Secret Writing." *Endeavor* 33, no. 1 (2009): 24-28.
13. "Invisible Ink Revealed." *Chemical Heritage Magazine* 27, no. 3 (Fall 2009): 26-30.
14. "The Crown Jewels and the Importance of Scientific-Technical Intelligence." In *East German Foreign Intelligence: Myth, Reality and Controversy*. (London: Routledge, 2010), 185-203. *

15. "Concealing/Revealing Spy Artifacts." In *Sachunterricht: Fundstücke aus der Wissenschaftsgeschichte*, ed. Thomas Brandsteter, Dirk Rupnow, Christina Wessely (Vienna: Löcker Verlag, 2008), 235-39.*
16. "Does Effective Espionage Lead to Success in Science and Technology? Lessons from the East German Ministry for State Security." *Intelligence and National Security* 19, no. 1 (Spring 2004): 51-75.*
17. "Führt effektive Spionage zu Erfolgen in Wissenschaft und Technik." In *Das Gesicht dem Westen zu...DDR-Spionage gegen die Bundesrepublik Deutschland*, ed. Georg Herbstritt, Helmut Müller-Enbergs (Bremen: Edition Temmen, 2003), 250-78.*
18. "The Case of Agent Gorbachev." *American Scientist* 88 (November-December 2000): 534-542. Reprinted in *The Intelligencer: The Journal of U.S. Intelligence Studies* 12, no. 1 (Summer 2001): 10-19.
19. "Surviving the Swastika – Revisited." In *Geschichte der Kaiser-Wilhelm-Gesellschaft im Nationalsozialismus*, ed. Doris Kaufmann (Göttingen: Wallstein Verlag, 2000), 586-99.*
20. "Introduction: Interpreting East German Science." In *Science under Socialism* *
21. "Technology Transfer and Espionage in the Quest for Scientific-Technical Prowess." In *Science under Socialism* (see IV.A.1.3 above), 82-121.*
22. "The Unity of Science vs. The Division of Germany: The Leopoldina." In *Science under Socialism* (see IV.A.1.3 above), 185-85.*
23. "Das Ringen um wissenschaftlich-technischen Höchststand: Spionage und Technologietransfer in der DDR." In *Naturwissenschaft und Technik in der DDR* (Berlin: Wiley/Akademie Verlag, 1997), 59-89.*
24. "Einheit der Wissenschaft versus deutsche Teilung: Die Leopoldina und das Machtdreieck in Ostdeutschland." In *Naturwissenschaft und Technik in der DDR* (Berlin: Wiley/Akademie Verlag, 1997), 147-72.
25. "Exodus der Wissenschaftler aus der Kaiser Wilhelm Gesellschaft." In *Exodus von Wissenschaften aus Berlin*, ed. Wolfram Fischer, Klaus Hierholzer, Michael Hubenstorf, Peter Th. Walther, Rolf Winau (Berlin: De Gruyter, 1994), 267-82.*
26. "The Ideological Origins of Institutes at the Kaiser Wilhelm Gesellschaft in National Socialist Germany." In *Science, Technology and National Socialism*, ed. Mark Walker, Monika

- Renneberg (Cambridge: Cambridge University Press, 1994), 139-59.*
27. "Adolf Butenandt." In *Nobel Prize Laureates in Chemistry, 1901-1992*, ed. James K. Laylin (Washington: American Chemical Society, 1993), 253-58.
 28. "Wissenschaft and Political Unification in the New Germany." In *From Two to One: U.S. Scholars Witness the First Year of Unification*, ed. Kurt-Jurgen Maas (Bonn: Alexander von Humboldt Foundation, 1992), 72-85.
 29. "Development: an Evolutionary Perspective." In *Magill's Survey of Science: Life Science*, ed. Frank Magill (Pasadena, CA: Salem Press, 1991), 615-20.
 30. "Science under Socialism." *AvH-Magazin* 67 (July 1996): 80-81.
 31. "The Survival of Basic Biological Research in National Socialist Germany." *Journal of the History of Biology* 26 (1993): 253-58.*
 32. "Coming to Terms with Medicine and Eugenics in Germany: An Essay Review." *Journal of the History of Medicine and Allied Sciences* 46, no. 1 (January 1991): 97-109.
 33. "The Rockefeller Foundation and German Physics under National Socialism." *Minerva* 27 (1989): 33-57.*
 34. "Wissenschaftsförderung durch die Rockefeller-Stiftung im Dritten Reich: die Entscheidung, das Kaiser Wilhelm Institut für Physik finanziell zu unterstützen." *Geschichte und Gesellschaft* 12 (1986): 348-79. (Reviewed in *Frankfurter Allgemeine Zeitung*, 29 October 1986).*
 35. "Alfred Wegener: Self-Proclaimed Scientific Revolutionary." *Archives Internationales d'Histoire des Sciences* 34 (1984): 163-76.*
2. Conference Presentation with Proceedings (Refereed)
 1. "East Germany's Failed Quest for Scientific-Technical Modernization." In *Science, Technology and Political Change: Proceedings of the XXth International Congress of History of Science I* (Liège: Brepols, 20-26 July 1997), 15-22.
 3. Other Published Material
 1. "Six Churches, Six Miles, Six Weeks: Morganton Baptist Church." *Like the Dew: A Progressive Journal of Southern Culture and Politics*, 27 August 2016. <http://likethedew.com/2016/08/27/six-churches-six-miles-six-weeks-2-morganton-baptist-church/#.XDUNqi2ZOu4>
 2. "Six Churches, Six Miles, Six Weeks: Toccoa Baptist Church." *Like the Dew: A Journal of Southern Culture*, 17 August 2016. <http://likethedew.com/2016/08/17/six-churches-six-miles-six-weeks-1-toccoa-baptist-church/#.XDUNOy2ZOu4>

3. "Between Pistols and Prozac." *Like the Dew: A Journal of Southern Culture*, 30 June 2015.
 4. "Edward Snowden is the 21st Century's Frank Church." November 7, 2014. HNN, <http://www.historynewsnetwork.org/article/157437>
 5. "Clark Rockefeller Unmasked." *Like the Dew: A Journal of Southern Culture*, 28 January 2012.
 6. "Berlin's Soul." *Muses* (Fall 2000), 14-15.
 7. "Adolf Butenandt." In *Encyclopedic History of Modern Germany*, ed. Dieter K. Buse, Juergen C. Doerr (New York: Garland, 1998), 152-53.
 8. "Science, Scientists and National Socialism." In *Encyclopedic History of Modern Germany*, ed. Dieter K. Buse, Juergen C. Doerr (New York: Garland, 1998), 905.
 9. "What Did Those Lost German Files Tell?" letter to the Editor, *The New York Times*, 9 January 1994.
4. Book Reviews (Select)
1. "A Tale of Two Memoirs." Essay Review of *Permanent Record*, by Edward Snowden and *Eyes to the Wind* by Ady Barkan. *Washington Times*, 3 October 2019.
 2. Review of *The Third Reich's Intelligence Services: the Career of Walter Schellenberg*. by Katrin Paehler. *American Historical Review*, 124, 2, April 2019: 767-768.
 3. "The Spy Among Us." Review of *Deep Undercover: My Secret Life and Tangled Allegiances as a KGB Spy in America*, by Jack Barsky. *Washington Times*, 20 March 2017.
 4. "A Red Spy That Got Away." Review of *A Very Principled Boy: the Life of Duncan Lee, Red Spy and Cold Warrior*, by Mark. A. Bradley. *H-Diplo, H-Net Reviews*. (June 2015).
 5. Review of *The German Research Foundation, 1920-1970: Funding Poised Between Science and Politics*, ed. by Mark Walker, Karin Orth, Ulrich Herbert, Rüdiger vom Bruch. *Central European History* 48, no. 1 (2015): 128-29.
 6. Review of *Secret Intelligence in the European State Systems, 1918-1989*, ed. by Jonathan Haslam and Karina Urbach. *H-Diplo, H-Net Reviews*. (July 2014).
 7. Review of *Supervision: An Introduction to the Surveillance Society*, by John Gilliom and Torin Monahan. *Technology and Culture* 55, no. 2 (2014): 515-16.
 8. "Saved by Secrets." Review of *Double Cross: the True Story of the D-Day Spies*, by Ben Macintyre. *International Journal of Intelligence and National Security* 26, no. 4 (Fall 2013): 826-29.

9. Review of *Hide and Seek: Camouflage, Photography, and the Media of Reconnaissance*, by Hanna Rose Shell. *Technology and Culture* 54, no. 3 (2013): 696-97.
10. "Losing the Master Key to Europe." Review of *On the Edge of the Cold War: American Diplomats and Spies in Postwar Prague*, by Igor Lukes. *H-Diplo*, *H-Net Reviews*. (May 2013).
11. Review of *Red Prometheus: Engineering and Dictatorship in East Germany, 1945-90*, by Dolores Augustine. *Central European History* 43, no. 1 (2010): 204-6.
12. Review of *The Currency of Socialism: Money and Political Culture in East Germany*, by Jonathan R. Zatin. *The Historian* 71, no. 2 (Summer 2009).
13. Review of *The Star Wars Enigma: Behind the Sciences of the Cold War Race for Missile Defense*, by Nigel Hey. *Isis* 99, no. 2 (June 2008): 441-2.
14. Review of *Delusions of Intelligence: Enigma, Ultra, and the End of Secure Ciphers*, by R.A. Ratcliff. *Central European History* 41, no. 1 (2008), 163-5.
15. Review of *Science and Ideology: A Comparative History*, ed. by Mark Walker. *American Historical Review* 109, no. 4 (2004): 1204-5.
16. "Harnessing Science for Hitler." Review of *Hitler's Scientists: Science, War and the Devil's Pact*, by John Cornwell. *Nature* 425, no. 6960 (2003): 766-67.
17. Review of *Stalinist Science*, by Nikolai Kremmentsov. *Isis* 90, no. 4 (December 1999): 833-34.
18. Review of *Biologists under Hitler*, by Ute Deichmann. *American Historical Review* 103, no. 4 (Summer 1998): 1270-71.
19. Review of *Reenchanted Science: Holism in German Culture from Wilhelm II to Hitler*, by Anne Harrington. *German Politics and Society*, *German Politics and Society* 16, no. 3 (Spring 1998): 150-53.
20. Review of *Die Welteislehre: Ihre Geschichte und ihre Rolle im "Dritten Reich,"* by Brigitte Nagel. *Isis* 87, no. 1 (March 1996): 203-204.
21. "Deadly Excuses." Review of *Death and Deliverance: "Euthanasia" in Germany, 1900-1945*, by Michael Burleigh. *Nature* 378 (7 December 1995): 570.
22. "Fueling the Engines of Growth." Review of *Opting for Oil: The Political Economy of Technological Change in the West German Chemical Industry, 1945-1961*, by Raymond G. Stokes. *Nature* 369 (23 June 1994): 620.

23. "Spy Secrets." Review of *Beyond the Wall: Memoirs of an East and West German Spy*, by Werner Stiller. *Science* 262 (1993): 1908-10.
24. Review of *Radical Transitions: the Survival and Revival of Entrepreneurship in the GDR*, by Andreas Pickel. *German Studies Review* 1 (February 1994): 218-20.
25. Review of *Darwin and the General Reader: the Reception of Darwin's Theory of Evolution in the British Periodical Press, 1859-1872*, by Alvar Ellegård. *Journal of the History of Biology* 26 (1993): 380-81.
26. Review of *Forschung im Spannungsfeld von Politik und Gesellschaft: Geschichte und Struktur der Kaiser-Wilhelm/Max-Planck-Gesellschaft*, ed. by Rudolf Vierhas, Bernard vom Brocke, *Chronik der Kaiser-Wilhelm-Gesellschaft zu Förderung der Wissenschaften*, by Eckart Henning and Marion Kazemi, *Geschichte des Kaiser-Wilhelm-Instituts für Kohlenforschung, 1913-1943*, by Manfred Rasch. *Isis* 84 (1993): 167-68.
27. Review of *Doctors under Hitler*, by Michael Kater, *Racial Hygiene: Medicine under the Nazis*, by Robert Proctor, and *Health, Race, and German Politics between National Unification and Nazism*, by Paul Weindling. *Journal of the History of Medicine* 46 (1991): 97-109.
28. Review of *Kants Kritik der teleologischen Urteilskraft* [Kant's Critique of Teleological Judgment], by Peter McLaughlin. *Journal of the History of Biology* 23 (1990): 338-39.
29. In sum, over 25 book reviews in *Nature* (3x), *Science*, *Isis*, *AHA*, *German Studies Review*, *JHB*, *Washington Times*, etc.

C. Invited Presentations (Select. Book-related Lectures under Media, E. 1)

1. "Visual Representations of the U.S. Global Espionage Empire." Society for the History of Technology, Milan, Italy, 26 October 2019.
2. "The CIA, Mind Control, Torture and Historical Amnesia." Georgia State University, 26 April 2019.
3. "Passing the Torch: How America Became a Global Espionage Power." Technological Innovation and the Spread of Globalization in the Cold War, International Conference, Vienna, Austria, 13 October 2018.
4. "The CIA, Mind Control, Torture and Historical Amnesia." DAAD Humboldt Foundation Conference, 6 October 2018.
5. "Every Citizen a Target?" Smithsonian/ International Spy Museum, Washington, DC, 21 February 2018 [Available on You Tube]
6. "The Stasi's Secret Communication Methods." Strategic Advisory Group, Roswell Country Club, 2 May 2018.
7. "The Hazards of Intelligence Cooperation: The Case of the Berlin Tunnel & George Blake." Paper presented at conference on Creating and

Challenging the Transatlantic Intelligence Community, Woodrow Wilson International Center for Scholars, Washington, DC, 30 March-1 April 2017. [Filmed for C-SPAN]

8. "Our Machine in Havana." Paper Presented at American Association of Physics Teachers, Atlanta, 21 February 2017. A different version presented at the International Studies Association Conference, Baltimore, MD, 23 February 2017.
9. "New Wine in Old Bottles? Spying and Russian Interference in the US Election." Presentation at Innovation and Collaboration in Liberal Arts, Science and Technology (ICLAST), Ivan Allen College, Georgia Institute of Technology, Atlanta, GA, 3 February 2017.
10. "Archives and Cultures of State Secrecy in Transnational Perspective." Paper presented and workshop at Restricted Knowledge: Channeling Security Information in Recent History, German Historical Institute (joint with Woodrow Wilson International Center for Scholars), Washington, DC, 8-9 December 2016.
11. "Researching at Secret Police/Intelligence Archives." Presentation at Summer Institute for Conducting Archival Research (SICAR), Woodrow Wilson International Center for Scholars (joint conference with George Washington University Cold War Group), Washington, DC, 26 May 2016.
12. "Writing About Secrets." Paper presented at Secrecy and Intelligence: Opening the Black Box conference, North Carolina State University, Raleigh, NC, 17-19 April 2016.
13. "Our Machine in Havana." Presentation at Georgetown University, Washington, DC, 26 February 2016.
14. "How We Really Found Missiles on Cuba: A Story about Myths, Technology and Secret Agents." Paper circulated and virtually discussed with physical sciences group at Philadelphia Area Center for History of Science (PACHS), Consortium for History of Science, Technology and Medicine, Philadelphia, PA, 17 February 2016.
15. "The Spy Technophiles: America's Love Affair with Technology and the People Who Created It." Woodrow Wilson International Center for Scholars, Washington, DC, 10 November 2015.
16. "Seduced by Secrets: Inside the Stasi's Spy-Tech World." *Naval War College*, Eight Bells Lecture Series, 11 December 2014
17. "How the Story of Secret Writing Can Help us Understand Headlines Today" *Miami University*, Ohio, *Havighurst Center for Russian Studies Lecture Series*, 15 September 2014.
18. "Markus Wolf: from the Shadows to the Limelight." Spy Chiefs Conference in Venice, Italy, 6-7 May 2014
19. "History of Science from Nazi Germany to Global History" History Department, *Purdue University*, 17 April 2014.

20. "The Unwritten History of Invisible Ink." Presentation at Department of History, Georgia State University, 1 November 2013.
21. "Caught Communicating during the Cold War." Paper presented at International Studies Association Meeting, San Diego, CA, 2 April 2012.
22. "Invisible Ink Revealed." Presentation at Atlanta Science Tavern, 24 September 2011.
23. "Winning the Secret Ink Wars." Presentation at International History of Intelligence Conference, Marburg, Germany, 17-19 June 2011; *idem* at Graduate Forum Seminar Series, School of History, Technology and Society, Georgia Institute of Technology, 3 October 2011.
24. "Seduced by Scientific Secrets." Presentation at Woodrow Wilson Center, 30 April 2010.
25. "Was there a German Style of Espionage during the Cold War?" Workshop at North Carolina German Studies, 18 April 2009.
26. "Reconciling Secrecy and Openness: Secret Communication and the Origins of Modern Science." Presentation at Secrecy Conference, Department of the History of Science, Harvard University, 11 April 2009.
27. "Ancient Imprints: Fear and the Origins of Secret Writing." Presentation at Chemical Heritage Foundation, Philadelphia, PA, 9 December 2008.
28. "Seduced by Secrets, Smitten by Technology." Presentation at STS Program, Massachusetts Institute of Technology, Cambridge, MA, 15 September 2008; *idem* at Office of History of Science, University of California, Berkeley, CA, 9 February 2009.
29. "Seduced by Secrets." Presentation at CIA Distinguished Lecture Series, May 2008; *idem* at International Spy Museum, 5 June 2008; *idem* at Association of Former Intelligence Officers, Boston Chapter, June 2008.
30. "The Crown Jewels and the Importance of Scientific-Technical Intelligence." Invited lecture at East German Foreign Intelligence – Myth, Reality and Controversy conference, University of Southern Denmark, Odense, Denmark, November 2007.
31. "Seduced by Secrets and other Controversial German Topics." Presentation at Canadian Centre for German and European Studies, York University, 5 March 2007.
32. Macrakis, Kristie, Ryan D. Sweeder and Elizabeth K. Bell, "Invisible Ink: Concept Context and Catalysis." Sigma Xi Annual Meeting and Student Research Conference, Detroit, MI, 4 November 2006.
33. Conference Chair and commentary on two history of medicine papers at The Great Lakes History Conference, Grand Rapids, MI, 21 October 2006.
34. "The Stasi's Bloated Espionage Bureaucracy and Scientific-Technical Progress." German Studies Association Meeting, Washington, DC, 8 October 2004.
35. "Would Spying Help the Auto Industry?" Invited lecture at Sigma Xi Ford Chapter, Dearborn, MI, 9 December 2002.

36. "Spy Dust." Invited lecture at STS Program Colloquium, University of Michigan, December 2001; *idem* at 4S Meeting, Milwaukee, WI, October 2002.
37. "Führte gute Spionage zu gute Wissenschaft und Technik." (Does good espionage lead to good science and technology?). Invited lecture (German) at Conference on "Stasi im Western," Berlin, 14-16 November 2001.
38. "Spy-Tech, East German Style." Invited lecture at Careless History Club, London, ON, Canada, November 2001.
39. "Does Good Espionage Lead to Good Science?" Presentation at International History of Intelligence Society, Paderborn, Germany, June 2000.
40. "Espionage, Technology and the Stasi." Multi-media lecture delivered at Michigan State University, November 1999; *idem* at University of Toronto, March 2000.
41. "Surviving the Swastika: the KWG and Science Policy in Nazi Germany." Presentation at Conference on the Kaiser Wilhelm Gesellschaft in the Third Reich, Sponsored by the Max Planck Society, Berlin, 10-13 March 1999.
42. "Cloak and Dagger Technology Transfer." History of Science Society, Annual Meeting, Kansas City, MO, 25 October 1998.
43. "East Germany's Failed Quest for Scientific-Technical Modernization." Presentation at International Congress of History of Science, Liège, Belgium, 21 July 1997. Printed in abstracts.
44. "Undissolvable Boundaries: Reflections on an East-West Project about East German Science." Presentation at Midwest German History Workshop, University of Michigan, 8-9 November 1997.
45. "The End of East German Science." Presentation at Department of History, George Washington University, Washington, DC, 17 January 1997.
46. Session on "Science, Politics and Culture in Germany, 1900-1945." Chair, German Studies Association, 12 October 1996.
47. "From Nazism to Socialism." Commentary delivered at History of Science Society Session, Minneapolis, MN, 29 October 1995.
48. "Deceit in the Quest for Scientific-Technical Prowess: Espionage and Science in East Germany." Paper presented at "Science under Socialism" conference, Conway, NH, 15-17 September 1995.
49. "Science under Socialism." Conference organizer, Conway, NH, 15-17 September 1995.
50. "The Division of Germany vs. the Unity of Science." Paper presented at "Science under Socialism" conference, Conway, NH, 15-17 September 1995.
51. "Reflections on the German Atomic Bomb." Invited lecture at Northwestern University, May 1995.

52. "Espionage, Science, and Technology: the Case of East Germany." Invited lecture at Annual Endowed Lecture Series, Albion College, Michigan, April 1995.
53. "Limits and Possibilities of Institutional History in the Third Reich." Invited paper delivered at Conference on the Kaiser Wilhelm Society, Bad Homburg, Germany, 19 June 1994.
54. "Scientists under National Socialism." Lunch speaker at Scholars' Conference on the Holocaust, Princeton, NJ, 8 March 1994.
55. "Radical Transformations: Science, the Universities, and Power in Germany, 1989-1993." Lecture at Institute for Advanced Study, Princeton University, 4 February 1994; *idem* at Program in History of Science Colloquium Series, Princeton University, 18 February 1994.
56. "Science in West Germany." Session chair at History of Science Society, New Mexico, November 1993.
57. Commentator for papers on the Post-World War II Project Paperclip, German Historical Institute, Washington, DC, 16-18 September 1993.
58. "Science under Socialism in East Germany in Comparative Perspective." Workshop Organizer and Presenter, Berlin, 1-4 September 1993.
59. "Political Cultures and Science Policy in the German Democratic Republic." Workshop at American Institute for Contemporary German Studies, 19 April 1993.
60. "Science and Political Unification in the New Germany." Session Organizer, Chair and Presenter at History of Science Society and American Historical Association, December 1992.
61. "Science and Political Unification in the New Germany." Lecture at University of Maryland, March 1992; *idem* at Northwestern University, April 1992.
62. "Exodus of Scientists from the Kaiser Wilhelm Gesellschaft." Lecture (German) at Conference on Exodus of Science from Berlin, Berlin Academy of Sciences, 20-22 February 1991; *idem* at Technical University, Berlin, 7 May 1991.
63. "The Survival of Basic Biological Research in National Socialist Germany." Lecture at University of Minnesota (Program in "History of Science"), Spring 1990; *idem* at Dibner Colloquium Series, Department of the History of Science, Harvard University, Spring 1990.
64. "The Ideology of Expansion, the 'New Order' of German Science and the Kaiser Wilhelm Gesellschaft." Paper delivered at International History of Science Congress (Session on "Science and Ideology"), Hamburg, Munich, West Germany, 1989. Printed in abstracts.
65. "The Crisis in German Biology: the Founding of the Kaiser Wilhelm Institute of Biology in Wilhelmian Germany." Paper delivered at History of Science Society Annual Meeting (Session on "German Biology in its Institutional Context"), Raleigh, NC, October 1987.

66. "The Place of the Kaiser Wilhelm Gesellschaft in National Socialist *Wissenschaftspolitik*." Contributed paper delivered at History of Science Society Annual Meeting, Pittsburg, PA, October 1986.
67. "Rockefeller Funds Reich Science." Lecture (German) at History of Science Institute, Stuttgart, West Germany, January 1986; *idem* at Humboldt University & Physikalische Gesellschaft, Berlin (East), German Democratic Republic, June 1986.
68. "Rockefeller Funds Reich Science: the Decision to Fund Kaiser Wilhelm Institute of Physics, 1934-38." Contributed paper delivered at the International History of Science Congress, Berkeley, CA, 1985. Printed in abstracts.
69. "Reductionism, Du-Bois Reymond and Matter in Motion." Contributed paper delivered at Joint Atlantic Seminar in the History of Biology, Baltimore, MD, Spring 1983.

D. Other Scholarly and Creative Accomplishments

Languages: German (fluent), French (reading knowledge), Greek.

E. Societal and Policy Impacts

1. Media (Select)

1. Interviewed for Smithsonian film on Vetrov and Economic Espionage, Washington, DC. Spring 2018.
2. Interviewed for film on Jeffrey Carney, ARTE TV, 5 July 2016.
3. Consultant to *Lapham's Quarterly*, "Spies" issue, Winter 2016.
4. Interviewed for Klumbyte, Neringa, "Conversations on Government Secrecy and Surveillance." *Perspectives on Europe* 45 no. 1 (2015): 61-70.
5. Interviewed for Stefan Pannen and Rosa Lübbe, *Wirtschaftsspionage der DDR*, film for television (Leipzig: MDR TV, 2015). Adviser for film.
6. Referee and Content Consultant for children's educational book of WWII espionage: Lusted, Marcia. *World War War II Espionage* (Minneapolis, MN: ABDO Publishing, 2015). Refereed February 2015.
7. Extensive media coverage of *Prisoners, Lovers, and Spies* (see) for details: www.kristiemacrakis.com. Below, select.
 - a. Lecture filmed for C-SPAN Book TV, June 10, 2014.
 - b. Talk about the book at the Carter Center, Spring 2014.
 - c. International Spy Museum, Spring 2014.
 - d. Harvard Book Store, Spring 2014.
 - e. Interviewed on Science Friday, PRI, WNYC, and many other radio shows.
8. Numerous interviews and articles about invisible ink presentation at Sigma Xi in newspapers, on radio and internet, November 2006.

9. Podcast on “Radioactive Spy Dust” with *Scientific American*, 20 December 2006.
10. Interviewed for History Channel show “Hi-Tech Hitler,” aired 12 February 2006.
11. Article about my LBS 492 course “Technology of Bond, James Bond” seminar in Matthew Miller, “Class serves up taste of spy life,” *Lansing State Journal*, 2 March 2006, B1 and B4.
12. Article about my LBS 332 course “Technology in the Service of Espionage” class in *The Chronicles of Higher Education* 52, no. 38 (26 May 2006): A10.
13. Radio interviews for *Seduced by Secrets* (see IV.A.1.2 above):
 - a. 3 April 2008 – Jack Lessenberry Essays and Interviews (tel.).
 - b. May 2008 – Veterans Radio, Ann Arbor, MI (tel.).
 - c. 17 September 2008 – WDET, Detroit, MI (live).
14. TV interviews for *Seduced by Secrets*:
 - a. 25 June 2008 – Smoki Bacon Show, Channel 23
15. Book signings for *Seduced by Secrets* (select; see IV.A.1.2 above):
 - a. Harvard Book Store
 - b. International Spy Museum
 - c. Schuler’s Books

F. Other Professional Activities (Select)

Memberships: History of Science Society, Society for Social Studies of Science, American Historical Association, German Studies Association, Sigma Xi (Scientific Research Society) Full Member (Michigan State University Chapter), American Association of Former Intelligence Officers (Associate Member).

V. Education

A. Courses Taught

Courses Taught at Georgia Tech, 2009-Present

Semester, Year	Course Number	Course Title	Students
Fall 2018	HTS 3046	Nazi Germany	32
Spring 2018	HTS 6121/INTA 8803	Sci. Tech.& Security	11
Fall 2017	HTS3046	Nazi Germany	32
Fall 2017	HTS 6743/LMC 6743*	STS Core Seminar	9

HTS 8904

Fall 2017		Comp. Reading(CL)	1
Spring 2017	HTS3084	Culture & Technology	32
Spring 2017	HTS8901	Masters Thesis, CL	1
Spring 2017	HTS8904	Comp Reading, MB	1
Fall 2016	HTS3046	Nazi Germany	28
Fall 2016	HTS6121	Sci. Tech & Security	3
Fall 2016	INTA8803	Sci. Tech & Security	1
Fall 2016	HTS8904	Comp. Exams, MB	1
Fall 2015	HTS8901	Masters Thesis, MB	1
Summer 2015	HTS8902	Masters Thesis, MB	1
Spring 2015	HTS3046	Nazi Germany	26
Spring 2015	HTS3083	Hist of Intelligence	5
Fall 2014	HTS3046	Nazi Germany	27
Fall 2014	HTS6121	Sci. Tech & Security	9
Fall 2014	INTA8803	Sci. Tech & Security	2
Spring 2014	HTS2100-R2*	Sci. Tech & Modern World	38
Spring 2014	HTS8901	Masters Thesis, LS	1
Spring 2014	HTS8904	Masters Thesis, PF	1
Fall 2013	HTS3803*	Hist of Intelligence	14
Fall 2013	HTS3046	Nazi Germany	35
Fall 2013	HTS8303*	Sci. Tech. Nat.Sec Grad	1
Fall 2013	HTS8901	Masters Thesis, PF	1
Spring 2013	HTS3823*	Tech & Espionage	18
Spring 2013	HTS4081*	Seminar in Hist. Tech	13
Spring 2013	HTS8901	Masters Thesis, PF	1
Fall 2012	HTS2698	Research, TP	1

Fall 2012	HTS4698	Research, Pura, BB	1
Fall 2012	HTS6121*	Sci Tech & Security	5
Fall 2012	INTA8803	Sci Tech & Security	3
Fall 2012	HTS3046	Nazi Germany	32
Fall 2012	HTS8903	Comp Reading, JA, PM	2
Spring 2012	HTS2698	Research, TP	1
Spring 2012	HTS3084	Culture & Technology	31
Spring 2012	HTS8901	Reading, PM-	1
Fall 2011	HTS3046*	Nazi Germany	35
Fall 2011	HTS6114*	History of Science	2
Spring 2011	HTS3084	Culture & Technology	28
Spring 2011	HTS3803*	HP 2 (Tech & Espionage)	16
Spring 2011	HTS8903	Reading Course, PF	1
Fall 2010	HTS8002	Perspectives	8
Fall 2010	HTS3813*	Nazi Germany/ST	21
Spring 2010	HTS3084*	Culture & Technology	34
Spring 2010	HTS4082*	Seminar in Hist of Tech	15
Fall 2009	HTS3813*	Nazi Germany/ST	12
Fall 2009	HTS8002	Perspectives	8
Fall 2009	HTS8901	Masters Thesis, HW	1
Spring 2009	HTS8002*	Perspectives – Tech & Sci	8

* Indicates new course.

B. Individual Student Guidance

1. Ph.D. Students

1. Paul McKittrick, Graduated December 2018
2. Mario Bianchini, ABD
3. Christopher Long, ABD
4. Michael Bivona

2. M.S. Students

1. Paul McKittrick – Spring 2012
 2. Larry Stokes – Spring 2014
 3. Mario Bianchini – Spring 2016
 4. Christopher Long – Spring 2017
 5. Paulina Faraj- Spring 2014
 3. Undergraduate Students
 1. Ben Belden, PURA Research Advisor
 2. Taylor Pritchard, Research Advisor
 3. Ella Smith, Research Advisor
 4. Service on Thesis or Dissertation Committees
 1. Joon An, Masters Thesis Second Reader
 2. Joon An, Member of Dissertation Committee
 3. *Mario Bianchini, Chair of Masters Thesis
 4. *Mario Bianchini, Chair of Dissertation Committee
 5. Lisa Borrello, Masters Thesis Second Reader
 6. Alice Clifton, Masters Thesis Second Reader
 7. *Paulina Faraj, Chair of Masters Thesis
 8. *Jeffrey Alan Hodges, Chair of Dissertation Committee, MSU, 2001
 9. *Tricia Jenkins, MSU, Dissertation Committee, 2007
 10. Brian Jirout, Member of Dissertation Committee
 11. *Christopher Long, Chair of Masters Thesis
 12. *Christopher Long, Chair of Dissertation Committee
 13. *Paul McKittrick, Chair of Masters Thesis
 14. *Paul McKittrick, Chair of Dissertation Committee, completion 2018
 15. *Larry Stokes, Chair of Masters Thesis
 16. *Hannah Wecksler, Chair of Masters Thesis
 5. Mentorship of Postdoctoral Fellows or Visiting Scholars
- C. Educational Innovations and Other Contributions

VI. Service

A. Professional Contributions

Editorial Board Member, *Comparative Technology Transfer and Society* journal.

Editorial Board Member, *Intelligence and National Security* journal.

Proposal Reviewer, National Science Foundation (NSF), 2000-present

Panel Member, National Science Foundation (NSF).

Panel Member, Germany, Institute of Excellence

Reviewer, American Association of University Women Fellowships, 1989-1990.

Reviewer, University Research Grants at Michigan State University, 1992, 1997, 2003, 2004.

Reviewer, Small Research Grants, Ivan Allen College, Georgia Tech
Panel Member, University Research Grants (AURIG), Michigan State University, 1993, 1997.

Project Referee, National Endowment for the Humanities (NEH).

Proposal Referee, Canadian Social Sciences and Humanities Research Council, February 2013.

Referee, *Isis*, *American Historical Review*, *The Historian*, *Journal of the History of Biology*, *Minerva*, *Central European History*, *Kritika*, *Plos One*, *Cold War Studies*, *Cold War History*, *Technology and Culture*, *Journal of Intelligence History*, *Intelligence and National Security* journals. Lots of refereeing.

Book Evaluator, American Chemical Society Press; Harvard University Press; Houghton Mifflin; Georgetown University Press; University of Michigan.

Secretary, Sigma Xi, Michigan State University Chapter, 2003-2007.

B. Public and Community Service

1. Big Brother/Big Sister Mentor
2. Luxe Condonimium, Atlanta, Treasurer
3. American Association of Intelligence Officers, Atlanta Chapter, Vice-President

C. Institute Contributions

1. Michigan State University

Educational Policy Committee, 1991-1993; Secretary 2004-2006.

Tenure and Promotion By-Laws Committee, 1991-1992.

Tenure Review Evaluation Letters, 2005, 2006, 2009.

Panel for AURIG Grants, Spring 1993, 1998.

Chair, Colloquium Series Ad hoc Committee, Spring 1993.

Briggs Advisory Council, 1993-1995.

Search Committee (Tenure-Track Positions), 1995-1996, 1998-1999;
Chair 2003-2004, 2005-2006, 2006-2007.

Tenure and Promotion Committee (LBS), 2001-2002, 2004-2005.

Business Chair, Science and Technology Studies Group, 1996-1998.

Chair, Awards Committee, 1996-1998, 1999-2001.

Convener, LBS Inaugural Seminar Series.

Graduate Policy and Admissions Committee, Department of History,
2000-2001, 2004-2005.

Department Advisory Committee, Department of History, 2005-2006.

International Committee (University Committee), 1999-2004.

New Residential College Committee, Summer 2004 (report issued).
Chair, Seminar Series, 1999-2000; Co-Chair, 2006-2007.
Numerous Two-Person Review Committees for Faculty.
Dean's Faculty Advisory Committee, College of Natural Science,
2005-2007.
Outreach – Meet Michigan program, June 1992.

2. Georgia Institute of Technology

School Committees:

Seminar Series, Chair, 2017-2018, 2014-2015, on and off committee
since 2011

Graduate Committee, 2010-2015, Fall 2016-
Executive Committee, 2009-2011.

Search Committee, Environmental Historian, 2017

Tenure and Promotion Committee, 2009-Present.

Ivan Allen College:

STS Steering Committee, 2017-

STS Planning Committee, 2012-2013

Institute:

Institute Graduate Curriculum Committee, Chair, 2018-2019, On
committee, 2013-Present.