Foundation Professor

School for the Future of Innovation in Society

Associate Vice Provost for Discovery, Engagement and Outcomes

Julie Ann Wrigley Global Futures Laboratory

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**Education:**

1994, post-doctoral training, Harvard University, Kennedy School of Government (L. Branscomb, advisor)

1993, Ph.D., Massachusetts Institute of Technology, political science (E. Skolnikoff, chair)

1987, A.B., *cum laude*, Yale University, with honors in the special divisional major, technology and society

**Professional Experience:**

Academic and Research Appointments

July 2020 to present Associate Vice Provost, Global Futures Laboratory, ASU

February 2017 to present Foundation Professor

July 2015 to June 2021 Founding Director, Professor, School for the Future of Innovation in Society, ASU

July 2015 to June 2020 Interim co-director, Institute for the Future of Innovation in Society

July 2008 to June 2020 Co-Director, Consortium for Science, Policy and Outcomes, ASU

July 2007 to June 2008 Acting Director, CSPO, ASU

Oct 2005 to Sep 2016 Director, NSEC/Center for Nanotechnology in Society at Arizona State University

Jan 2005 to June 2015 Professor of Politics and Global Studies, Arizona State University

Other current titles Graduate Faculty, Politics and Global Studies

Associate Faculty, Program in Biology and Society

Associate Faculty, School of Public Affairs

Global Futures Scientist, Julie Ann Wrigley Global Futures Laboratory

Associate Faculty, Center for the Future of War

Jan 2005 to June 2007 Associate Director, Consortium for Science, Policy, & Outcomes, ASU

July 2001 to Dec 2004 director, Program in Public Policy, Rutgers

July 2000 to Dec 2004 tenured associate professor, Bloustein School of Planning & Public Policy, Rutgers

July 1994 to June 2000 assistant professor of public policy, Department of Public Policy, Rutgers

Spring 1994 adjunct lecturer, Harvard University, John F. Kennedy School of Government

June 1993 to June 1994 post-doctoral fellow, Belfer Center for Science and International Affairs

Sep 1992 to May 1993 pre-doctoral fellow, Belfer Center for Science and International Affairs

Summer 1990 research fellow, National Museum of American History (Smithsonian)

Visiting Appointments

November 2010 distinguished international visitor, Durham University, Department of Geography

June – July 2008 visiting faculty, Bielefeld University

June 2007 visiting fellow, Center for Nanotechnology and Society, Kent School of Law, Illinois Institute of Technology

May 2003 visiting scholar, Department of Management, Politics, and Philosophy, Copenhagen Business School

August 2000 to July 2001 distinguished visiting research scholar, CSPO, Columbia University

Non-Academic Appointments

Aug. 1990 to Jan. 1992: research assistant, National Academy of Sciences

Summer 1987: intern, U.S. Congress Office of Technology Assessment

**Scholarship:**

(full citations provided; underline denotes student co-author; Google scholar n=18,044; H=46; i10=94)

Books

1. D. H. Guston, E. Finn, and J. A. Robert, eds. 2017. *Frankenstein: Annotated for Scientists, Engineers and Creators of All Kinds*. Cambridge: MIT Press.

(Reviewed in *The New York Review of Books*, *Science, Los Angeles Review of Books*, among others, and received press in *The Atlantic*, *The New Yorker*, the *Times Higher Education Supplement*, *Engineering & Technology*, *NPR*, *Science Friday*, *Smithsonian.com*, *Atlas Obscura*, and *The New Scientist*, where it was named one of the “science books we’re keen to read in 2017”)

(Spanish language edition, published 2017 by Ariel, text translated by Jose C. Vales, notes and appendices translated by Vicente Campos)

1. M. L. Zirulnik, L. Gutkind, and D. Guston, eds. 2015. *The Rightful Place of Science: Creative Nonfiction*. Tempe, AZ: Consortium for Science, Policy & Outcomes.
2. D. H. Guston, ed. 2010. *Encyclopedia of Nanoscience and Society* (two volumes). Thousand Oaks, CA: Sage Publications.
3. D. H. Guston and D. Sarewitz, eds. 2006. *Shaping Science and Technology Policy: The Next Generation of Research*. Madison: University of Wisconsin Press.

(China edition published 2011 by Peking University Press.)

1. D. H. Guston. 2000. *Between Politics and Science: Assuring the Integrity and Productivity of Research*. New York: Cambridge University Press.

(The American Political Science Association’s Section on Science, Technology, and Environmental Politics awarded this book the 2002 Don K. Price Award for the best book in science, technology, and politics over the previous three years.)

(China edition, with new preface, published 2010.)

1. M. Jones, D. H. Guston, and L. M. Branscomb. 1996. *Informed Legislatures: Coping with Science in a Democracy*. Lanham, MD: University Press of America/CSIA.
2. D. H. Guston and K. Keniston, eds. 1994. *The Fragile Contract: University Science and the Federal Government*. Cambridge: MIT Press.

Journal articles

In preparation/under review

1. S. El-Sayed, W. Sun, E. Cantu, and D. H. Guston. In preparation. “Institutions of Higher Education, JEDI, and Public Interest Technology.” *Journal of Responsible Innovation*.
2. E. Hajric, B. Gansky and D. H. Guston. In preparation. “The ‘Ethical and Societal Considerations’ Mandate for the US National Science Foundation.” *Research Policy*.
3. L. Friedman, L. Lambert, D. H. Guston, M. Farooque and C. Selin. In preparation. “The Anticipatory Goverrnance of Human Genetic Engineering.” *Research Policy*.
4. D. H. Guston et al. In preparation. Responsible Innovation in Low Earth Orbit.

Peer-reviewed

1. D. Barlevy, E. Juengst, J. Kahn, J. Moreno, L. Lambert, A. Charo, H. Chneiweiss, M. Farooque, D. Guston, I. Hyun, P. Knoepler, C. Selin, R. Wilbanks, M. Zaghlula, and C. Scott. 2024. "Governing with Public Engagement: An Anticipatory Approach to Human Genome Editing." *Science and Public Policy* <https://doi.org/10.1093/scipol/scae010>.
2. A. Radatz, M. Reinsborough, E. Fisher, E. Corley, and D. Guston. 2019. “An Assessment of Engaged Social Science Research in Nanoscale Science and Engineering Communities.” *Science and Public Policy* 46:853-65.
3. J. Kuzma, F. Gould, Z. Brown, J. Collins, J. Delborne, E. Frow, K. Esvelt, D. Guston, C. Leitschuh, K. Oye and S. Stauffer. 2018. “A Roadmap for Gene Drives: Using Institutional Analysis and Development to Frame Research Needs and Governance in a Systems Context.” *Journal of Responsible Innovation* 5(1):13-39.
4. D. Tomblin, Z. Pirtle, M. Farooque, D. Sittenfeld, E. Mahoney, R. Worthington, G. Gano, M. Gates, I. Bennett, J. Kessler, A. Kaminski, J. Lloyd and D. Guston. 2017. “Integrating Public Deliberation into Engineering Systems: Participatory Technology Assessment of NASA’s Asteroid Redirect Mission.” *Astropolitics: The International Journal of Space Politics and Policy* 15(2):141-66.
5. C. E. Selin, K. C. Rawlings, S. Davies, J. Sadowski, G. Gano, and D. H. Guston. 2017. “Experiments in Engagement: Designing PEST for Capacity-Building.” *Public Understanding of Science* 26(6):634-49.
6. J. Sadowski and D. H. Guston. 2016. “’You Caught Me Off Guard’: Probing the Futures of Complex Engineered Nanomaterials.” *Journal of Nanoparticle Research* 18(7):208-14.
7. M. Halpern, J. Sadowski, J. Eschrich, E. Finn and D. H. Guston. 2016. “Stitching Together Creativity and Responsibility: Interpreting Frankenstein Across Disciplines.” *Bulletin of Science, Technology and Society* 36(1):49-57.
8. A. Wiek, R. Foley, D. H. Guston, and M. Bernstein. 2016. “Broken Promises and Breaking Ground for Responsible Innovation – Intervention Research to Transform Business-as-Usual in Nanotechnology Innovation.” *Technological Analysis and Strategic Management* 28(6):639-50.

1. B. A. Wender, R. W. Foley, V. Prado-Lopez, D. Ravikumar,D. A. Eisenberg, T. A. Hottle, J. Sadowski, W. P. Flanagan, A. Fisher, L. Laurin, M. E. Bates, I. Linkov, T. P. Seager, M. P. Fraser andD. H. Guston. 2014. “Illustrating Anticipatory Life Cycle Assessment for Emerging Photovoltaic Technologies.” *Environmental Science and Technology* 48(18):10531-38.
2. D. H. Guston. 2014. “Understanding Anticipatory Governance.” *Social Studies of Science*. 44(2):219-43.
3. D. H. Guston. 2014. “Building the Capacity for Public Engagement with Science in the United States.” *Public Understanding of Science* 23(1):53-59.
4. A. Wiek, D. H. Guston, S. van der Leeuw, C. Selin and P. Shapira. 2013. “Nanotechnology and the City: Sustainability Challenges, and Anticipatory Governance.” *Journal of Urban Technology* 20(2):45-62.
5. B. A. Wender, R. W. Foley, D. H. Guston, T. P. Seager, and A. Wiek. 2012. “Anticipatory Governance and Anticipatory Life Cycle Assessment of Single Wall Carbon Nanotube Anode Lithium Ion Batteries.” *Nanotechnology Law and Business* 9:101-18.
6. A. Wiek, R. Foley, and D. H. Guston. 2012. “Nanotechnology for Sustainability: What does Nanotechnology Offer to Mitigate Complex Sustainability Problems?” *Journal of Nanoparticle Research* 14:1093-1112.
7. W. C. Clark, T.P. Tomich, M. von Noordwijk, D. Guston, D. Catacutan, N. M. Dickson, and E. McNie. 2011. “Boundary work for sustainable development: Natural Resource Management at the Consultative Group on International Agricultural Research (CGIAR).” *Proceedings of the National Academy of Sciences* *USA.* 113(17):4615-22.
8. D. H. Guston. 2010. “The Anticipatory Governance of Emerging Technologies.” *Journal of the Korean Vacuum Society* 19(6):432-41.
9. M. Brown and D. H. Guston. 2009. “Science, Democracy, and the Right to Research.” *Science and Engineering Ethics* 15(3):351-66.
10. S. Shapiro and D. H. Guston. 2007. “Procedural Control of the Bureaucracy, Peer Review, and Epistemic Drift.” *Journal of Public Administration, Research, and Theory* 17(4):535-51.
11. D. A. Scheufele, E. A. Corley, S. Dunwoody, T. Shih, E. Hillback, and D. H. Guston. 2007. “Nanotechnology: Scientists Worry About Some Risks More Than the General Public.” *Nature Nanotechnology* 2(12):732-34.
12. G. Gano, J. E. Crowley, and D. H. Guston. 2007. “’Shielding’ the Knowledge Transfer Process in Human Services Research” *Journal of Public Administration, Research, and Theory* 17(1):39-60.
13. D. H. Guston. 2003. “Principal-Agent Theory and the Structure of Science Policy, Revisited: ‘Science in Policy’ and the US *Report on Carcinogens*.” *Science & Public Policy* 30(5):347-57.
14. D. W. Cash, W. C. Clark, F. Alcock, N. M. Dickson, N. Eckley, D. H. Guston, J. Jaeger, and R. B. Mitchell. 2003. “Knowledge Systems for Sustainable Development.” *Proceedings of the National Academy of Sciences* 100(14):8086-91.
15. D. H. Guston and D. Sarewitz. 2002. “Real-Time Technology Assessment.” *Technology in Society* 24:93-109.
16. Agrawala, S., K. Broad, and D. H. Guston. 2001. “Integrating Climate Forecasts and Societal Decision Making: Challenges to an Emergent Boundary Organization.” *Science, Technology & Human Values* 26(4):454-77.
17. D. H. Guston. 2001. “Integrity, Responsibility, and Democracy in Science.” *SciPolicy: A Journal of Science and Health Policy* 1(2):168-89.
18. D. H. Guston. 1999. “Evaluating the First U.S. Consensus Conference: The Impact of the ‘Citizens' Panel on Telecommunications and the Future of Democracy.’” *Science, Technology & Human Values* 24(4):451-82.

(Reprinted in D. McDonald, G. Bammer, and P. Deane, eds. 2009. *Research Integration Using Dialogue Methods*. Canberra: Australia National University E-Press.)

1. D. H. Guston. 1999. “Changing Explanatory Frameworks in the U.S. Government’s Attempt to Define Research Misconduct.” *Science and Engineering Ethics* 5(2):137-54.
2. D. H. Guston. 1999. “Stabilizing the Boundary Between Politics and Science: The Role of the Office of Technology Transfer as a Boundary Organization.” *Social Studies of Science* 29(1):87-112. (Reprinted in S. Silbey, ed. 2008. *Law and Science Volume II: Regulations of Property, Practices, and Products. The International Library of Essays in Law and Society*, A. Sarat, ed. Aldershot, UK: Ashgate.)
3. D. H. Guston. 1997. “Critical Appraisal in Science and Technology Policy Analysis: The Example of *Science, The Endless Frontier*.” *Policy Sciences* 30(4):233-55.
4. D. H. Guston, M. Jones, and L. M. Branscomb. 1997. “The Demand for and Supply of Technical Information in State Legislatures.” *Policy Studies Journal* 25(3):451-69.
5. D. H. Guston, M. Jones, and L. M. Branscomb. 1997. “Technology Assessment in the U.S. State Legislatures.” *Technological Forecasting and Social Change* 54(2-3):233-50.
6. D. H. Guston. 1996. “Principal-Agent Theory and the Structure of Science Policy.” *Science and Public Policy* 23(4):229-40.

introductions to special issues/sections of peer reviewed journals

1. E. Fisher, M. Smolke, R. Owen, M. Pansera, D.H. Guston, A. Grunwald, J.P. Nelson, S. Raman, P. Neudert, S. Flipse, and B. Ribeiro. 2024. “Responsible Innovation Scholarship: Normative, empirical, theoretical, and engaged.” *Journal of Responsible Innovation* 11(1): DOI: [10.1080/23299460.2024.2309060](https://doi.org/10.1080/23299460.2024.2309060).
2. D. H. Guston. 2015. “People, Persons, and Publics.” *Journal of Responsible Innovation* 2(3):243-45.
3. D. H. Guston. 2015. “Want, Settle, Get.” *Journal of Responsible Innovation* 2(2):149-51.
4. D. H. Guston. 2015. “Who Could Be Against *That*?” *Journal of Responsible Innovation* 2(1):1-4.
5. D. H. Guston. 2014. “Giving Content to Responsible Innovation.” *Journal of Responsible Innovation* 1(3):251-53.
6. D. H. Guston. 2014. “Responsible Innovation: A Going Concern.” *Journal of Responsible Innovation* 1(2):147-50.
7. D. H. Guston, E. Fisher, A. Grunwald, R. Owen, T. Swierstra, and S. v.d. Burg. 2014. “Responsible Innovation: Motivations for a Journal.” *Journal of Responsible Innovation* 1(1):1-8.
8. D. H. Guston. 2013. “Introduction to the Special Issue: Nanotechnology and Political Science.” *Review of Policy Research* 30(5):439-46.
9. D. Braun and D. H. Guston. 2003. “Principal-Agent Theory and Research Policy: An Introduction.” *Science and Public Policy* 30(5):302-08.
10. D. H. Guston. 2001. “Boundary Organizations in Environmental Policy and Science: An Introduction.” *Science, Technology & Human Values* 26(4):399-408.
11. B. Bimber and D. H. Guston. 1997. “The End of OTA and the Future of Technology Assessment.” *Technological Forecasting & Social Change* 54(2-3).
12. D. H. Guston. 1997. “Science, Technology and Environmental Policy: Satisfying New Demands on State Governments.” *Policy Studies Journal* 25(3):407-11.

editorially-reviewed/invited

1. E. Fisher, M. Smolke, R. Owen, M. Pansera, D. Guston, A. Grunwald, J.P. Nelson, S. Raman, P. Neudert, S. Flipse, and B. Rabeiro. 2024. “Responsible Innovation Scholarship: Normative, Empirical, Theoretical and Engaged.” *Journal of Responsible Innovation* 11(1): forthcoming.
2. D. H. Guston. 2023. “Making the Most of the ‘Ethical and Societal Considerations’ in the CHIPS and Science Act.” *Issues in Science and Technology* (published online 3 May at <https://issues.org/ethical-societal-considerations-nsf-guston/>).
3. J.P. Nelson, C. Selin, L. Lambert and D.H. Guston. 2022. “Amplifying the Call for Anticipatory Governance.” *American Journal of Bioethics* 22(1).
4. D. H. Guston. 2018. “…Damned if you don’t.” *Journal of Responsible Innovation* 5(3):347-52.
5. B.D. Johnson and D. H. Guston. 2016. “Futures We Want to Inhabit.” *IEEE Computer* 49(2): 78-9.
6. J. Sadowski and D. H. Guston. 2015. “TA as an Institutionalized Practice: Recent Developments in the USA,” *Technikfolgenabschätzung – Theorie und Praxis* 24(1):54-59.
7. D. H. Guston. 2012. “The Pumpkin or the Tiger? Michael Polanyi, Frederick Soddy, and Anticipating Emerging Technologies*.*” Special 50th Anniversary Issue. *Minerva*. 50(3):363-79.

(Reprinted in A. Maynard and J. Stilgoe, eds. 2016. The Ethics of Nanotechnology, Geoengineering, and Clean Energy. Surrey, UK: Ashgate.)

1. L. Gutkind, G. Ottinger, and D. H. Guston. 2012. “To Think, to Write, to Publish: Science and Innovation Policy through the Looking Glass of Creative Non-fiction.” *The Cairo Review of Global Affairs* (Spring):94-105.
2. A. Wiek, D. H. Guston, E. Frow and J. Calvert. 2012. “Sustainability and Anticipatory Governance in Synthetic Biology.” *International Journal of Social Ecology and Sustainable Development* 3(2):25-38.
3. D. H. Guston. 2011. “Participating Despite Questions: Toward a More Confident Participatory Technology Assessment.” *Science and Engineering Ethics* 17(4):691-98.
4. D. H. Guston. 2009. “Deliberating Nanotechnology in the US.” *People & Science* (Dec):22.
5. D. H. Guston. 2008. “Innovation Policy: Not Just a Jumbo Shrimp.” *Nature* 454:940-41.
6. D. H. Guston. 2006. “Responsible Knowledge-based Innovation.” *Society* 43(4):19-21.
7. D. H. Guston. 2004. “Forget Politicizing Science. Let’s Democratize Science!” *Issues in Science and Technology* (Fall):25-28.
8. D. H. Guston, E. J. Woodhouse, and D. Sarewitz. 2001. “A Science and Technology Policy Focus for the Bush Administration.” *Issues in Science and Technology* (Spring):29-32.

(Reprinted in *AAAS Science and Technology Policy Yearbook 2002*, edited by A. H. Teich, S. D. Nelson, and S. J. Lita. Washington, DC: American Association for the Advancement of Science.)

1. D. H. Guston. 2000. “Retiring the Social Contract for Science.” *Issues in Science and Technology* (Summer):32-36.
2. D. H. Guston. 1996. “New Technology Role for States.” *Forum for Applied Research and Public Policy* 11(3):38-44.
3. D. H. Guston, M. Jones, and L. M. Branscomb. 1996. “Helping States Tackle Technical Issues.” *Issues in Science and Technology* (Summer):61-66.
4. D. H. Guston and K. Keniston. 1994. “Updating the Social Contract for Science.” *Technology Review* (November/December):60-68. (Reprinted in T.A. Easton, ed. *Taking Sides: Clashing Views on Controversial Issues in Science, Technology, and Society*, second edition. Guilford, CT: Brown and Benchmark, Publishers.) (Translated as "Partecipazione e verità" in *Technology Review, edizione Italiana* (Aprile/Maggio 1995):28-35.)
5. D. H. Guston. 1994. “Congressmen and Scientists in the Making of Science Policy: The Allison Commission, 1884-1886.” *Minerva* 32(1):25-53.
6. D. H. Guston. 1994. “The Demise of the Social Contract for Science: Misconduct in Science and the Nonmodern World.” *The Centennial Review* 38(2):215-48.
7. D. H. Guston. 1993. “The Essential Tension in Science and Democracy." *Social Epistemology* 7(1):3-23 and "Resolving the Tension in Graham and Laird.” *Social Epistemology* 7(1):47-60.

# Chapters

Individually peer-reviewed where noted

1. D.H. Guston. 2023. “Governing Science, Technology and Innovation in Hotter Times.” In D. Orr, ed., *Democracy in a Hotter Time*. Cambridge, MA: MIT Press.
2. D.H. Guston. 2020. “Toffler’s Diagnostic Errors.” In J. Schroeter, ed., *After Shock: The World’s Foremost Futurists Reflect on 50 Years of Future Shock and Look Ahead to the Next 50*. Bainbridge Island, WA: Abundant World Institute.
3. M. Brundage and D.H. Guston. 2019. “Understanding the Movement(s) for Responsible Innovation. In R. von Schomberg and J. Hankins, ed., *International Handbook on Responsible Innovation*. Northampton, MA: Edward Elgar (*refereed contribution*).
4. E. Fisher, D. H. Guston, and B. Trinidad. 2019. “Making Responsible Innovators.” In M. Wisnioski, E. S. Hintz, and M. Stettler Kleine, eds., *The Innovator Imperative*. Cambridge: MIT Press.
5. R. Foley, D. H. Guston and D. Sarewitz. 2019. “Toward the Anticipatory Governance of Geoengineering.” Pp. 223-43 in J. Blackstock and J. Low, eds., *Geoengineering Our Climate: Science, Ethics and Governance*. London: Earthscan.
6. J. Stilgoe and D. H. Guston. 2017. “Responsible Research and Innovation and STS.” In C. Miller, U. Felt, R. Fouche, and E. Popp-Berman, eds. *Handbook of Science and Technology Studies*. Cambridge: MIT Press *(refereed contribution)*.
7. D. H. Guston. 2017. “The Insufficiency of Cool.” Pp. 57-63 in M. Halpern, J. Eschrich, and J. Sadowski, eds., *The Rightful Place of Science: Frankenstein*. Tempe, AZ: Consortium for Science, Policy and Outcomes.
8. D. H. Guston. 2013. “’Daddy, Can I Have a Puddle Gator?’: Creativity, Anticipation, and Responsible Innovation,” Pp. 109-18 in R. Owen, J. Bessant, and M. Heintz, eds., *Responsible Innovation: Concepts and Practice*. London: Wiley.
9. R. Owen, P. Macnaghten, J. Stilgoe, M. Gorman, E. Fisher and D. H. Guston. 2013. “A Framework for Responsible Innovation,” Pp. 27-50 in R. Owen, J. Bessant, and M. Heintz, eds., *Responsible Innovation: Concepts and Practice*. London: Wiley.
10. M.C. Roco, B. Harthorn, D. Guston, and P. Shapira. 2010. “Innovative and Responsible Governance of Nanotechnology for Responsible Development.” Pp. 441-87 in M.C. Roco, C.A. Mirkin, and M.C. Hersam, eds., *WTEC Panel report on Nanotechnology Research Directions to 2020: Retrospective and Outlook*. New York: Springer.
    1. (Reprinted as: M.C. Roco, B. Harthorn, D. Guston and P. Shapira. 2011. “Innovative and Responsible Governance of Nanotechnology.” *Journal of Nanoparticle Research* 13(9).)
11. R.E. Smits, R. van Merkerk, D.H. Guston, and D. Sarewitz. 2010. “Strategic Intelligence: The Role of TA in Systemic Innovation Policy.” In R.E. Smits, S. Kuhlman, and P. Shapira, eds., *The Theory and Practice of Innovation Policy: An International Research Handbook*. Northampton, MA: Edward Elgar *(refereed contribution)*.
12. D. H. Guston. 2010. “Science, Politics, and Two Unicorns: An Academic Critique of Science Advice.” Pp. 7-15 in R. Pielke, Jr. and R. A. Klein, eds., *Presidential Science Advisors: Perspectives and Reflections on Science, Policy, and Politics*. New York: Springer *(refereed contribution).*
13. R. Karinen and D. H. Guston. 2010. “Toward Anticipatory Governance: The Experience with Nanotechnology.” Pp. 217-232 in M. Kaiser, M. Kurath, S. Maasen, and C. Rehmann-Sutter, eds. *Governing Future Technologies: Nanotechnology and the Rise of an Assessment Regime.* Dordrecht: Springer *(refereed contribution)*.
14. D. Barben, E. Fisher, C. Selin, and D. H. Guston. 2008. “Anticipatory Governance of Nanotechnology: Foresight, Engagement, and Integration.” Pp. 979-1000 in E. J. Hackett, O. Amsterdamska, M. E. Lynch, and J. Wajcman, eds., *The New Handbook of Science and Technology Studies*. Cambridge: MIT Press.
15. D. H. Guston. 2007. “Toward Centres for Responsible Innovation in the Commercialized University.” Pp. 295-312 in P. W. B. Phillips and J. Porter, eds., *Public Science in Liberal Democracy: The Challenge to Science and Democracy*. Toronto: University of Toronto Press.
16. D. H. Guston. 2007. “The Center for Nanotechnology in Society at Arizona State University and the Prospects for Anticipatory Governance.” Pp. 377-92 in N. Cameron and M. Ellen Mitchell, eds., *Nanoscale: Issues and Perspectives for the Nano Century*. New York: John Wiley and Sons.
17. D. H. Guston, J. Parsi, and J. Tosi. 2007. “Anticipating the Ethical and Political Challenges of Human Nanotechnologies.” Pp. 185-97 in F. Allhoff, P. Lin, J. Moor, and J. Weckert, eds., *Nanoethics: The Ethical and Social Implications of Nanotechnology*. New York: John Wiley and Sons.
18. D. H. Guston. 2006. “On Consensus and Voting in Science: From Asilomar to the National Toxicology Program.” Pp. 378-404 in S. Frickel and K. Moore, eds., *The New Political Sociology of Science*. Madison: University of Wisconsin Press.
19. H. Fenyk and D. H. Guston. 2006. “Citizen Expertise and Citizen Action in the Creation of the Freshwater Wetlands Protection Act.” In N. Maher, ed., *New Jersey’s Environments*. New Brunswick: Rutgers University Press (*refereed contribution*).
20. D. H. Guston. 2005. “Institutional Design for Robust Knowledge: The National Toxicology Program’s *Report on Carcinogens*.” Pp. 63-79 in S. Maasen and P. Weingart, eds., *Democratization of Expertise? Sociology of Science, 24*. Dordrecht: Springer (*refereed contribution*).
21. D. H. Guston. 2004. “CRIs in the Wilderness: Toward Centers for Responsible Innovation in the Commercialized Academy.” Pp. 161-74 in D. Stein, ed. *Buying in or Selling Out: Essays in the Commercialization of the American Research University*. New Brunswick: Rutgers University Press.
22. R. Margolis and D. H. Guston. 2003. “Learning from the OTA Experience.” Pp. 53-76 in M. G. Morgan and J. M. Peha, eds., *Science and Technology Advice for Congress*. Washington, DC: Resources for the Future Press.
23. D. H. Guston. 2003. “Science and Technology Advice for the Congress: Insights from the OTA Experience.” Pp. 77-89 in M. G. Morgan and J. M. Peha, eds., *Science and Technology Advice for Congress*. Washington, DC: Resources for the Future Press.
24. D. H. Guston. 2003. “The Expanding Role of Peer Review Processes in the United States.” Pp. 81-97 in P. Shapira and S. Kuhlmann, eds., *Learning from Science and Technology Policy Evaluation: Experiences from the United States and Europe*. Northampton, MA: Edward Elgar.
    1. (Reprinted in R. Frodeman, J. B. Holbrook, and C. Mitcham, eds., *Peer Review, Research Integrity, and the Governance of Science: Practice, Theory, and Current Discussions*. Beijing: Remnin [People’s] Press.)
25. D. H. Guston. 2002. “Developments in Misconduct and Integrity Policies Since the Publication of the 1992 COSEPUP Report.” Appendix C in Institute of Medicine, *Integrity in Scientific Research: Creating an Environment That Promotes Responsible Conduct*. Washington, DC: National Academy Press.
26. D. H. Guston. 2001. “Toward a ‘Best Practice’ of Constructing ‘Serviceable Truths’.” Pp. 97-118 in W. Dunn, M. Hisschemoller, J. R. Ravetz and R. Hoppe, eds., *Knowledge, Power, and Participation in Environmental Policy and Risk Assessment*. New Brunwick, NJ: Transaction Press (*refereed contribution*).
27. D. H. Guston. 1998. “Technology Transfer and the Implementation of CRADAs at the National Institutes of Health.” Pp. 221-49 in *Investing in Innovation*, Lewis M. Branscomb and James Keller, eds. Cambridge: MIT Press.
28. B. Bimber and D. H. Guston. 1995. “Politics by the Same Means: Government and Science in the U.S.” Pp. 554-71 in S. Jasanoff, G. Markle, J. Petersen, and T. Pinch, eds., *Handbook of Science and Technology Studies*. Beverly Hills: Sage (*refereed contribution*).
29. D. H. Guston. 1993. “Congressional Oversight: A Result of Science Advising?” Pp. 45-71 in K. Thompson, ed., *The Presidency and Science Advising: Congress, Governance, and Science*, vol. 9. Lanham, MD: University Press of America.
30. D. H. Guston. 1993. “Mentorship and the Research Training Experience.” Pp. 50-65 in National Academy of Sciences, *Responsible Science: Ensuring the Integrity of the Research Process*, vol. II. Washington, DC: National Academy Press.

Book Series

E. Finn and D.H. Guston, series editors. *Imagination, Annotated*. Cambridge, MA: MIT Press.

A. Klimchynskaya, ed. Under contract. *From the Earth to the Moon*, by Jules Verne.

D. H. Guston, series editor. *Yearbook of Nanotechnology in Society*. New York: Springer.

Volume 1 (2008): *Presenting Futures*, E. Fisher, C. Selin, and J. Wetmore, eds.

Volume 2 (2011): *Nanotechnology and the Challenge of Equity, Equality, and Development*, S. Cozzens and J. Wetmore, eds.

Volume 3 (2013): *Nanotechnology, the Brain, and the Future*, S. A. Hays, J. S. Robert, C. A. Miller, and I. Bennett, eds.

Research and professional reports

El Sayed, S. and D.H. Guston. 2022. *Public Interest Technology Case Studies: Arizona State University*. School for the Future of Innovation in Society, ASU. Tempe, AZ.

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El Sayed, S. and D.H. Guston. 2022. *Public Interest Technology Case Studies: Howard University*. School for the Future of Innovation in Society, ASU. Tempe, AZ.

El Sayed, S. and D.H. Guston. 2022. *A Process Guide for Identifying and Cataloguing PIT at Colleges/Universities*. School for the Future of Innovation in Society, ASU. Tempe, AZ.

Valdivia, W. and D.H. Guston. 2015. *Responsible Innovation: A Primer for Policymakers*. Center for Technology Innovation, The Brookings Institution, Washington, DC.

Selin, C., A. Wiek, D. H. Guston, A. Wilkinson and R. Ramirez. 2010. *Plausibility Project Workshop: Creating Research Agendas*. CNS-ASU Report #R10-0001. Center for Nanotechnology in Society, Arizona State University, Tempe, AZ.

D. H. Guston, 2010. *Societal Dimensions Research in the National Nanotechnology Initiative*. CSPO Report #R10-02. Consortium for Science, Policy and Outcomes and Center for Nanotechnology in Society, Arizona State University, Tempe, AZ.

P. Hamlett, M. D. Cobb, and D. H. Guston. 2008. *National Citizens’ Technology Forum: Nanotechnologies and Human Enhancement*. CNS-ASU Report #R08-0002.

C. A. Miller, D. H. Guston, D. Barben, J. Wetmore, C. Selin and E. Fisher. 2007. *Nanotechnology and Society: Ideas for Education and Public Engagement*. CNS-ASU Report #R07-0001. Center for Nanotechnology in Society, Arizona State University, Tempe, AZ.

M. Feldman, D. Guston, S. Hilgartner, R. Hollander, and S. Slaughter. 2005. *Research Policy as an Agent of Change: Workshop Report*. NSF 05-209. Arlington, VA: National Science Foundation.

D. H. Guston. "What is Peer Review?" a report to the American Chemistry Council (formerly the Chemical Manufacturers Association), 30 May 2000.

Published conference proceedings

S. Randles, J. Youtie, D. Guston, B. Harthorn, C. Newfield, P. Shapira, F. Wickson, A. Rip, R. Von Schomberg, and N. Pidgeon. 2012. “A Trans-Atlantic Conversation on Responsible Innovation and Responsible Governance.” Pp. 169-80 in *Little by Little: Expansions of Nanoscience and Emerging Technologies (Proceedings of the 2011 Annual Meeting of the Society for the Study of Nanoscience and Emerging Technologies)*. Edited by H. van Lente, C. Coenen, K. Konrad, L. Krabbenborg, C. Milburn, F. Seifert, F. Thoreau, and T. Zülsdorf. Heidelberg: IOS Press/AKA.

D. H. Guston. 2002. "The Regulatory Environment for Science: Does Democracy Trump Science?" Pp. 187-92 in *AAAS Science and Technology Policy Yearbook 2002*, edited by A. H. Teich, S. D. Nelson, and S. J. Lita, Washington, DC: American Association for the Advancement of Science.

D. H. Guston, M. Jones, and L. M. Branscomb. 1997. "Academe's Place in the Legislatures." Pp. 301-06 in *AAAS Science and Technology Policy Yearbook 1996/97*. Washington, DC: American Association for the Advancement of Science.

D. H. Guston, M. Jones, and L. M. Branscomb. 1996. "Science and Technology Advice to State Legislators." Pp. 45-54 in *Technical Expertise and Public Decisions*. 1996 International Symposium on Technology and Society Proceedings. Piscataway, NJ: IEEE.

D. H. Guston. 1995. "Five Tensions Between Science and Democracy." Pp. 239-42 in *Sigma Xi Forum, 1995: Vannevar Bush II, Science for the 21st Century*. Forum Proceedings. Research Triangle Park, NC: Sigma Xi.

Other print pieces

Among other brief writings in print, Professor Guston has authored or co-authored an eloge for Charlie Weiner in *Isis*, two articles in *The Encyclopedia of Science, Technology, & Ethics*, an article in *The History of Science in the United States: An Encyclopedia*, book reviews in *The Journal of Nanoparticle Research*, *Science*, *Public Understanding of Science*, *Futures*, and *Technology and Culture*, opinion pieces in *The Newark Star-Ledger*, *The Chronicle of Higher Education*, *The* *Scientist*, *IEEE Technology and Society Magazine*, and the *Wall Street Journal*, and letters in the print editions of *The New York Times*, *The New York Times Magazine*, *The Science Times*, *The New Republic*, *Science*, *The New Yorker*, *Issues in Science and Technology*, and *Academe*.

Presentations

Professor Guston has stopped counting the more than three hundred presentations of his research at professional meetings (e.g., American Association for the Advancement of Science, American Political Science Association, EuroScience Open Forum, Society for Social Studies of Science, Society for the Study of Nanoscience and Emerging Technologies, Sustainable Nanotechnology Organization), meetings by special invitation (e.g., Harvard Medical School, San Francisco Exploratorium, Brookings Institution, Gordon Research Conference, AAAS Science and Technology Policy Colloquium, Sigma Xi, Sam Nunn/Bank of America Public Policy Forum, NSEC/National Center for Learning and Teaching, NISE Net, Consultative Group on Biodiversity, Bassetti Foundation, European Joint Research Center, Seattle International Film Festival, Oxford Literary Festival, NASEM Sackler Colloquium on the Science of Science Communication, OECD, iGEM), community groups (e.g., Spirit of the Senses Salon, Humanist Society of Greater Phoenix, AZ Science Center Science Café), and through invitations by universities, governmental and quasi-governmental bodies in the US, Canada, Denmark, France, Germany, Ireland, Italy, Japan, Korea, the Netherlands, New Zealand, Norway, Spain, Sweden, Switzerland, and the United Kingdom. His keynote talks include: the 4th Triple Helix Conference (Copenhagen, Nov 02); the Dublin Institute of Technology’s meeting Research Ethics: Challenges and Dilemmas (Dublin, May 04); Dutch NanoNed Flagship TA and Societal Aspects of Nanotechnology meeting (Utrecht, Jul 08); the Nanotechnology, Policy and Society meeting at Manchester University (Manchester, Sep 08); the ESRC-sponsored Critical Public Engagement seminar at Durham University (Durham, Dec 09), the second annual Science, Technology and International Governance meeting at University of Tokyo (Tokyo, Mar 13), the first and the second Global Learning and Innovation Forum Symposium at Soon Chun Hyang University in Korea in Oct 17 and Apr 21, respectively. In Mar 09, he organized and spoke at a briefing to the US Congressional Nanotechnology Caucus on “Nanotechnology and the Public: Data for Decision Makers,” and he organized a “Workshop on Real-time Technology Assessment and Anticipatory Governance” prior to the Sep 09 inaugural meeting of the Society for the Study of Nanoscience and Emerging Technologies, in Seattle. In Oct 09, he presented on the chair’s plenary panel on “STS and Policy in the Academy” at the annual meeting of the Society for Social Studies of Science. In Feb 10, he briefed a working group of the President’s Council of Advisors for Science and Technology (PCAST) on the societal dimensions of nano-scale science and engineering. In Jan 12, he organized with the UK Consulate “Responsible Innovation: a UK-US Dialogue,” held in Washington, DC. In Sep 14, he delivered the Schlinger Symposium Plenary Address at the Chemical Heritage Foundation’s annual Innovation Day, in Philadelphia, PA. In Dec 15, he addressed the OECD Working Party on Biotechnology, Nanotechnology and Emerging Technologies on responsible innovation. He gave the first commencement address to the graduates of the Chandler (AZ) Online Academy in May 16. In Aug 18, he presented the plenary talk on the common read, *Frankenstein*, to Colorado College freshman in their orientation, and in Sep 18 he spoke to students at Mass Bay Community College, who also used *Frankenstein* as a common read. At ASU, he has been a featured speaker three times for the Sci Fi TV Dinner series, speaking on episodes of *Star Lost*, *X-Files*, and *Max Headroom*.

Research funding

External (pending or funded, PI or co-PI only; ASU REC Awards ~$7M; total ~$24M)

“NSF RIE-Type 2: Sustainability Innovation Engine for the Southwest,” co-investigator (Peter Schlosser, PI), National Science Foundation (award dates Mar 2024 – Feb 2026), $15M, 2% REC

“Responsible Innovation in Facebook/Meta,” principal investigator (with Jennifer Brian and Lauren Ruffin), Facebook/Meta (award dates: Dec 2022 – Sep 2023), $100K, 50% REC

“Toward the PIT University,” principal investigator, New Venture Fund/New America (award dates Jan 2021 – May 2022), $90K, 100% REC

“New Carbon Economy Consortium Fellowship Program,” co-principal investigator (Peter Schlosser, PI), Alfred P. Sloan Foundation (award dates: Jan 2021 – Jun 2024), $660K, 50% REC

“Preparing for Genomic Editing Technologies: An Anticipatory Approach,” co-principal investigator for subaward (Christopher Scott, PI, with Cynthia Selin, subaward PI, and Mahmud Farooque), National Institutes of Health (GRANT#12557174; award dates Aug 2019 – June 2023), total $1.6M, $504K subcontract, 34% REC on subK

“Living Frankenstein,” co-principal investigator (with Ed Finn, PI, Ruth Wylie and Amy Brand), Alfred P. Sloan Foundation, $249K, 10% REC

“Responsible Research and Innovation in Practice,” principal investigator of subaward (Ellen-Marie Forsberg, PI), European Commission Horizon 2020 Research and Innovation Framework Programme (#709637), Euro 139K of Euro 3.8M total, 100% REC for subcontract

“NSEC/Center for Nanotechnology in Society at Arizona State University: Community-building Around Anticipation, Integration and Public Engagement at CNS-ASU,” principal investigator, National Science Foundation (supplement to #0937591), $250K, 25% REC

“Increasing Learning and Efficacy about Emerging Technologies through Transmedia Engagement by the Public in Science-in-Society Activities,” co-principal investigator (with Ed Finn, PI, and Ruth Wylie, Steve Gano, Rae Ostman, and Micah Lande, co-PIs), National Science Foundation (DRL 1516684), $3M, 20% REC

“NSEC/Center for Nanotechnology in Society at Arizona State University: Broadening Participation in the Social Studies of Emerging Technologies,” principal investigator, National Science Foundation (supplement to #0937591), $237K, 25% REC

“Workshop: Research Agendas for Societal Aspects of Synthetic Biology,” principal investigator (with Richard Murray [Caltech] and Jennifer Brian), National Science Foundation (#MCB-1445903; award dates: Aug 2014 to Jul 2015), $150K, 70% REC

“A Participatory Technology Assessment of NASA’s Asteroid Initiative,” principal investigator (with Mahmud Farooque and Ira Bennett), National Aeronautics and Space Administration (#NNX14AF95A; award dates: Apr 2014 to Mar 2015), $196K, 20% REC

“Informal Learning and Scholarship In Science And Society: A Multi-Disciplinary Workshop On Scientific Creativity And Societal Responsibility,” co-principal investigator (with Ed Finn, PI and Stephen Helms-Tillery), National Science Foundation (#1354287; award dates: Mar 2014 to Feb 2015), $50K; 40% REC

“Science Across Virtual Institutes: Virtual Institute for Responsible Innovation,” principal investigator (with Erik Fisher), National Science Foundation (#1257246; award dates: Sep 2013 to Aug 2016), $500K; 70% REC

“NSEC/Center for Nanotechnology in Society at Arizona State University,” principal investigator (with Erik Fisher and Elizabeth Corley), National Science Foundation (supplement to #0937591), $173K; 25% REC

“IGERT: Solar Utilization Network (SUN),” co-principal investigator (with Wim Vermaas, PI), National Science Foundation (#1144616; award dates: Jul 2012 to Jun 2017), $3M; 8% REC

“Collaborative Research: Anticipatory Governance of Complex Engineered Nano-Materials,” principal investigator, National Science Foundation (#1235693; award dates: Aug 2012 to Jul 2014), $34K (with Kathleen Eggleson, University of Notre Dame); 100% REC

“Communicating Science and Innovation Policy through Narrative,” co-principal investigator (with Lee Gutkind, PI), National Science Foundation (#1149107; award dates: Mar 2012 to Feb 2014), $250K; 40% REC

“NSEC/Center for Nanotechnology in Society at Arizona State University,” principal investigator, National Science Foundation (supplement to #0937591), $18K; 25% REC

“NSEC/Center for Nanotechnology in Society at Arizona State University,” principal investigator (with Clark Miller, Deirdre Meldrum, Elizabeth Corley, Dietram Scheufele and Jan Youtie), National Science Foundation (#0937591; award dates: Oct 2010 to Aug 2015), $6.5 M; 25% REC

“To Think, To Write, To Publish: Workshop for Young Science Communicators,” co-principal investigator (with Lee Gutkind, PI), National Science Foundation (#1010641; award dates: Mar 2010 to Feb 2011), $49K

“Workshop for the Next Generation of Science and Technology Policy Leaders,” co-principal investigator (with Dan Sarewitz, PI), National Science Foundation (#0949727; award dates: Sep 2009 to Aug 2010), $29K

“NSEC/Center for Nanotechnology in Society at Arizona State University,” principal investigator, National Science Foundation (#0936064, supplement to #0531194), $109K

“Socio-Technical Integration Research,” co-principal investigator (with Erik Fisher, PI), National Science Foundation (#0849101; award dates: Apr 2009 to Mar 2011), $543K

“Gordon Research Conference on Science and Technology Policy: Governing Emerging Technologies,” principal investigator, National Science Foundation (#0750075; award dates: Feb 2008 to Jan 2009), $60K

“Gordon Research Conference on Science and Technology Policy: Governing Emerging Technologies,” principal investigator, Greenwall Foundation, $10K

“New Futures for Human Health and Enhancement: An Exploration of Nanotechnology-based Product Concepts in InnovationSpace,” co-principal investigator (with Prasad Boradkar, PI, ASU School of Design, et al.), National Collegiate Inventors and Innovators Alliance (award dates Jun 2007 to May 2008), $30K

“Integrating Knowledge and Policy for the Management of Natural Resources in International Development: The Role of Boundary Organizations,” principal investigator of sub-contract, National Science Foundation (award dates Oct 2006 to Oct 2008), $39K (subcontract under Harvard University; total ~ $300K)

“NSEC/Center for Nanotechnology in Society at Arizona State University,” principal investigator (with Daniel Sarewitz, George Poste, Marilyn Carlson, Anne Schneider and Clark Miller), National Science Foundation (#0531194; award dates: Oct 2005 to Sep 2010), $6.2 M

“The Public Value of Social Policy Research,” principal investigator, National Science Foundation (award dates: Sep 2003 to Aug 2005; one year extension), $80K

“The Public Value of Social Policy Research” (pilot project) principal investigator, National Science Foundation (award dates: Sep 2002 to Aug 2003), $10K

“Collaborative Research: Research Symposium with the Next Generation of Leaders in Science and Technology Policy,” co-principal investigator with Dan Sarewitz CSPO/Columbia, National Science Foundation (award dates: Jul 2002 to Jun 2003), $68K total

“Research Misconduct: What Has Happened Over the Last Decade?” consulting contract, Institute of Medicine (award dates: Aug 2000 to Oct 2000), $2500

“Identifying and Evaluating Strategies for Constructing Serviceable Truths,” principal investigator, National Science Foundation (award dates: Sep 1998 to Aug 2000), $64k and supplement (Sept 1999 to Aug 2000), $25K

“What is Peer Review?” principal investigator, Chemical Manufacturers Association (award dates: Sep 1999 to Jan 2000), $8160 (contract)

Internal

“White Paper on the Ethics of Smart Stadia,” ASU-DCU Catalyst Fund, with Bert Gordijn, 2015, $20K (total).

Numerous Presidential Strategic Initiative Fund (PSIF) awards, ASU

“Toward a Center for Responsible Innovation,” principal investigator, Rutgers University Research Council (award dates: Jul 2003 to Jun 2004), $1K

“Boundary Organizations in Environmental Policy and Science,” principal investigator, Rutgers University Environmental and Occupational Health Sciences Institute (award dates: Spring 1999 to Spring 2000), $10K

“The End of Science Policy,” principal investigator, Rutgers University Research Council (award dates: July 1998 – June 1999), $1K

**Teaching:**

ASU

Responsible Innovation (G; F22; F23)

The ASU Experience (UG; F16; F17)

PhD Colloquium (G; F16; Sp17; F17; Sp18; F18; Sp19; F19; Sp 20; F 20; Sp 21; F 21; Sp 22)

Solar Utilization Network-IGERT (G; F12; F13)

IGERT SUN-Energy in Context (G; Sp 13; Sp 14)

IGERT SUN-Global Energy issues (G; F13)

Science and Technology Policy/Advanced Science and Technology Policy (G; F11/Sp12; F12/Sp13; F13/Sp14)

Governing Emerging Technologies (G; F08; F09)

Learning Community: Nanotechnology in Society (UG; Sp07; Sp08)

Elements of Public Policy: Science and Technology Policy (UG; Sp06)

The Role of Experts in the Policy Process (G; F05; F06)

Rutgers

Public Policy Formation (G)

The Role of Experts in the Policy Process (G)

Knowledge, Conflicts, and Solutions (G; nominated for a Rutgers “Bridge Award” for collaboration, 2004)

Research & Development Policy (G)

Writing for Politics and Policy (G)

Supervision

Undergraduate

At ASU, Professor Guston supervised one undergraduate independent project in Sp 06. In AY 06-07, he supervised one undergraduate honors thesis (R. Davis) and served as second reader on a second (Z. Pirtle, who won a Fulbright scholarship to study in Mexico). In AY 07-08, he served as second reader on one undergraduate honors thesis (T. Spears, who won a Fulbright scholarship to study in the UK). He has supervised numerous undergraduate researchers at CNS-ASU and CSPO.

Graduate

Professor Guston has been a member of twenty-three completed doctoral dissertations (at Rutgers, two in political science, one in communication, and two in urban planning and policy development; one at Columbia in political science; at ASU, three in political science [Sean Hays, F 09, co-chair; John Parsi, Sp 13; Shannon Conley, Sp 14], four in Human and Social Dimensions of S&T [Gretchen Gano, F 14, co-chair; Jathan Sadowski, Su 16, chair; Miles Brundage, F 19, chair, and JP Nelson Sp 23], two in Public Affairs [Walter Valdivia, Sp 11, chair; Youngjae Kim, Su 17], one in Life Sciences [Ryan Meyer], one in Sustainability [Rider Foley], one in Chemistry and Biochemistry [Jason Lappe, Sp 09], and one in Sustainable Engineering and the Built Environment [Ben Wender Fa 15]); one in public affairs at NYU; and one in political science at Lausanne, Switzerland). He is currently on the committee of Ben Gansky, an HSD student.

He has served on two completed master’s thesis committee in life sciences (Clea Senneville, Su 09; Caiti Troyer, Sp 14) and one master’s in passing civil, environmental and sustainable engineering (Ben Wender, Sp 13); he has chaired another in political science (Emily Dalton Smith, Sp 12) and chaired one completed master’s-in-passing committee in political science (Rob Davis, Sp 11), as well as one completed project in the Professional Science Master’s degree in Science and Technology Policy (Annie Hale, F 12). He has supervised dozens of internships and independent studies, including one independent study by master's student at Rutgers (Dan Benson) that resulted in briefings for policy makers in Trenton and Washington, DC (sponsored by Reps. Rodney Frelinghuysen and Rush Holt).

Post-doctoral

Professor Guston has supervised six post-doctoral fellows and has shared supervision for twelve others. In AY 05-06 he supervised J. Wetmore, who was later hired in a national search to the ASU faculty and is now tenured. In AY 06-07, he supervised five post-doctoral fellows (two full – E. Fisher and C. Selin – and three shared – I. Bennett, D. Conz, and D. Barben). In AY 07-08, he shared supervision of Bennett (Barben, Conz, Fisher and Selin were all promoted to research faculty; in AY 09-10, Fisher began a track position at ASU in politics and global studies and CSPO, and in AY 11-12 Selin began a track position at ASU in the School of Sustainability and CSPO, and both are now tenured associate professors with SFIS; Barben is now tenured faculty at Alpen-Adria University, Austria). In AY 08-09, 09-10, and 10-11 he supervised M. Harsh (who in AY 12-13 began a track position at Concordia University, Montreal and is now tenured at Cal Poly), and in AY 10-11 he supervised S. Hays (who in AY 12-13 began a multi-year post-doctoral position at University of Bergen and is now out of academia). In AY 12-13, he shared supervision of K. De Ridder-Vignone (PhD, Cornell) and Michael Reinsborough (PhD, Belfast); both remained at ASU in AY 13-14; the former began a tenure-track position at James Madison University in AY 14-15, and the latter began a research associate appointment at Imperial College London in Sp 14. In AY 14-15, he shared supervision of M. Halpern (PhD, Cornell), who began a position at Michigan State University in Fall 2015 and is now tenured. In AY15-16, he shared supervision of H. Rogers (PhD, Cornell) and L. Keeler (PhD, ASU), the latter of whom is now a tenure-track faculty member at ASU. He supervised Sara el-Sayed (Sp 21-F 21-Sp 22), now an assistant research professor with the Swette Center for Sustainable Food Systems at ASU. He co-supervised J. Shapiro on a project on RI for Meta/Facebook (Dec 22-Sep 23); Shapiro now has a post-doc at Duke. He currently co-supervises three post-docs (Marjorie Xie, Nitin Verma, and Akuadasuo Ezenyilimba) in the ASU-NYAS AI & Society program, funded through a President’s Strategic Initiative Fund award.

Course-based research

Professor Guston has organized class research projects that have led to a peer-reviewed publication and have advised the White House Office of Science and Technology Policy, Rep. Rush Holt, the New Jersey Office of Legislative Services, and the New Jersey Department of Environmental Protection. In Fa 03, his class on The Role of Experts in the Policy Process conducted a survey, in conjunction with the Office of Institutional Research and Planning, and additional research on the public role of Rutgers as a community of experts.

**Service:**

University

At ASU Professor Guston chaired faculty searches in AY 04-05 and in AY 05-06 for CSPO. He co-chaired a faculty search in cooperation with the Fulton Schools of Engineering in AY 13-14. In AY 05-06, he sat on the graduate committee of the Department of Political Science, the CLAS Political Science Strategic Plan Working Group, and the CLAS Science and Society Implementation Committee. In AY 06-07, he was a member of the Department of Political Science Advisory Committee. As acting director of CSPO in AY 07-08, he led CSPO’s strategic planning initiative. He has served on the faculty advisory committee of ASU’s Origins Initiative and serves on the advisory council of ASU’s Biodesign Institute. In AY 09-10 he served on the Responsible Conduct of Research Faculty Advisory Group and in AY 10-11 he participated in the health and energy meta-planning activities. In AY 11-12, he served on the Academic Program Review committee of the School of Politics and Global Studies. He has served on the executive committee of the PhD program in Human and Social Dimensions of Science and Technology from its inception until 2015, and in AY 12-13 he began to serve on the Imagination Council of ASU’s new Center for Science and the Imagination. Professor Guston served as faculty advisor to the ASU student journal of science, society, and law *The Triple Helix* and mentored an ASU Obama scholar in AY 09-10. In AY21-22, he chaired the successful SFIS search for the new director of CSPO, and he chaired the first Academic Program Review done by the school. He has served as ASU’s designee to the Public Interest Technology University Network since its inception in 2019. He is a member of graduate faculties in human and social dimensions of science and technology (chair), political science (chair), public affairs (chair), sustainability, biology and society, and history and philosophy of science.

Editorial

Professor Guston was the founding editor-in-chief of the *Journal of Responsible Innovation*, an international, peer-reviewed journal that began publication with Taylor & Francis, serving for two volumes from 2014 to 2015 and continuing to serve on its editorial board as editor *emeritus*. He served as the North American editor of the international peer-reviewed journal *Science & Public Policy* from 2001 to 2009. He has served on the editorial boards of *Review of Policy Research: The Politics and Policy of Science and Technology* (the journal of the Science, Technology and Environmental Politics Section of APSA) and *Nanoethics: The Ethics of Technologies that Converge on the Nanoscale*. He has guest-edited special issues of *Review of Policy Research*, *Policy Studies Journal*, *Science & Public Policy* (with D. Braun), *Technological Forecasting & Social Change* (with B. Bimber) and *Science, Technology, & Human Values*. In W 11, *Issues in Science and Technology* began publishing a series of narrative science policy articles by young scholars and science writers derived from the “To Think, To Write, to Publish” workshop, designed by Gutkind and Guston; four such pieces were ultimately published. He continues to perform some ad hoc peer reviewing.

Public and Professional

Professor Guston has served on the Steering Committee on Engineering, Ethics, & Society of the National Academy of Engineering (2002) – whose recommendations led to the creation of NAE’s Center for Engineering, Ethics, and Society – and on the Social Dimensions of Engineering, Science, and Technology review panel at the National Science Foundation (2000-2002). In 2004, he served on the Committee of Visitors for NSF’s Methods, Cross-Directorate, and Science and Society cluster in the Division of Social and Economic Sciences. Professor Guston served as chair (2005-2006) of the Section on Societal Impacts of Science and Engineering of the American Association for the Advancement of Science. He was active in the Science, Technology and Environmental Politics Section of the American Political Science Association (where he chaired the section's program in 2000) and the Society for the Social Studies of Science (where he was a member of the program committee for the annual meetings in 2000 and 2001). He served as co-vice-chair of the 2006 Gordon Research Conference on Science and Technology Policy and as co-chair of the 2008 GRC, leading the fund-raising and programming for the conference on “Governing Emerging Technologies.” Professor Guston was appointed (2007) to the Nanotechnology Technical Advisory Group to advise the President’s Council of Advisors on Science and Technology and (2008) to an advisory group for the planning of programs and content to the Arizona Science Center. He was a member of the founding executive committee of the Society for Nanoscience and Emerging Technologies (S.NET) and served on the program committee for its first two annual meetings in 2009 and 2010; he co-chaired its program committee in 2011. In 2009, he joined the steering committee of ScienceDebate, which in the 2012 election cycle successfully solicited responses to science policy questions from the major party presidential nominees and numerous congressional incumbents serving on science-related committees. That year he also helped to found ECAST – Expert and Citizen Assessment of Science and Technology – a contact group including principals from the Boston Museum of Science and the Woodrow Wilson International Center that was instrumental in coordinating US participation in the World Wide Views on Global Warming (2010) and the World Wide Views on Biodiversity (2012). Professor Guston has also served on the AAAS Committee Early Career Award Committee for Public Engagement with Science in 2012 and 2013. He served on the Regional Forum for Responsible Innovation for the region of Lombardy (Italy; 2018-2021) and on the steering group for the creation of a Publicly Available Specification on responsible innovation (PAS 440) in conjunction with BSI in the UK. As ASU’s designee to the Public Interest Technology University Network, he chaired the program of the network’s convening in 2021. He currently serves on the advisory board to the OECD Committee on Scientific and Technological Policy’s project on “societies in times of crisis and beyond.”

Media/Electronic

Recent media contacts include *Slate.com, Arizona Republic*, *Washington Post*, *ASU Research Magazine*, *Phoenix Business Journal*, *ENT* (Environmental Nanotechnology), *Chronicle of Higher Education*, Fox News, KAET Horizon, and the radio programs “Are We Alone?” (<http://radio.seti.org/episodes/Nano_Nano>), “The Scholar’s Circle” (<http://archive.kpfk.org/mp3/kpfk_120513_120030marmoudian.MP3>), “Life in 2030” (<http://www.prx.org/pieces/89782-life-in-2030>), Science Friday (<https://www.sciencefriday.com/person/david-guston/>), and Here and Now (<http://kjzz.org/content/183342/new-asu-school-examines-link-between-tech-society>). Blog postings on the CSPO’s “As We Now Think” (aswenowthink.wordpress.com) and “Soapbox” ([www.cspo.org/soapbox](http://www.cspo.org/soapbox)) include “Better than the chair” (4 Sep 2012), “Golden Fleece 2.0” (10 Dec 2010), “The puddle gator” (9 Aug 2010), “This little piggy got transplanted…” (13 Oct 2009), “Who by fire” (25 Sep 2009) and “Passover and progress” (13 Apr 2009), as well as a guest blog spot on Science 2020 (“Public engagement with nanotechnology,” 30 Mar 2010) and on IEEE’s “tech talk” blog (“Better than the chair,” 7 Sept 2012). Professor Guston has been quoted numerous times in *The Scientist*, *Science*, *Nature*, *The Atlantic*, and other print and online outlets. He has appeared twice on NPR’s *Diane Rehm Show*. His *Slate.com/FutureTense* writing includes: a review of Michael Crichton’s novel *Micro* (5 Dec 2011); “The Man with the Personalized Gun” (with Ed Finn; 14 Nov 2012); “The Muddled Legacy of Alvin Toffler” (8 July 2016); “The Curse of the Halfway Technology” (17 Oct 2017), and “Who is the World Cup Ref-assisting Technology For?” 21 Nov 2022). He engaged in a debate on the Cato Institute’s “Cato Unbound” blog on “Who Pays for Science?” (<http://www.cato-unbound.org/issues/august-2013/who-pays-science>) in August 2014. NSF produced a mini-documentary profiling CNS-ASU through its Science Nation program (<http://www.nsf.gov/news/special_reports/science_nation/nanotechimpact.jsp)>, and Guston spoke about anticipatory governance on the World Economic Forum’s podcast [Regulation for the Fourth Industrial Revolution](https://urldefense.proofpoint.com/v2/url?u=http-3A__shaping4ir.libsyn.com_5-2Dregulation-2Dfor-2Dthe-2Dfourth-2Dindustrial-2Drevolution&d=DwMFAg&c=l45AxH-kUV29SRQusp9vYR0n1GycN4_2jInuKy6zbqQ&r=GWzo7ceZVcUQM-c7Vp4McId2OD1_HXE-EaseDiKGVIw&m=YBgyMG4tdhDkOsdXDD_X1jkQXv3GdJn2WURuGwlHbLk&s=uWHg6q5OKWzJmV_SWbIXqW_T690_BBLY37iqh9yNq7Q&e=). The new edition of *Frankenstein* has been covered on KJZZ’s The Show (<https://theshow.kjzz.org/content/496289/new-annotated-version-frankenstein-explores-science-engineering-philosophy>), BBC Radio 4’s Inside Science (<http://www.bbc.co.uk/programmes/b08x4rq3)>, and BBC Radio 3’s Free Thinking (<http://www.bbc.co.uk/programmes/b09m1dvh)>. He has written in Medium about the legacies of Apollo 11 (<https://medium.com/@dguston/the-legacies-of-apollo-11-6c8df29fbb3a?source=friends_link&sk=11b374a0ed0925238a730777300f6f56)> and the relationship among Leonard Cohen, Yom Kippur, and technological choice (<https://medium.com/@dguston/who-by-fire-bfc708eb195?source=friends_link&sk=f935a54f953b89a76b9cc122bb8f573a)> and co-authored (with Shobita Parthasarathy) an op-ed in *The Chronicle of Higher Education* about public interest technology.

**Honors and Awards:**

2002, Don K. Price Award from the Science, Technology, and Environmental Politics Section of the American Political Science Association for the best book in science and technology policy over the previous three years, awarded to *Between Politics and Science*.

2003, inducted as a Fellow of the American Association for the Advancement of Science for “distinguished scholarship and professional service at the intersections of science, technology, policy, and governance.”

2017, named a Foundation Professor at Arizona State University.