

Curriculum vitae

Bruce V. Lewenstein

Professor of Science Communication and University Ombuds

Departments of Communication and Science & Technology Studies

462 Mann Library Building

Cornell University

Ithaca, NY 14853 USA

+1-607-255-8310 (phone)

b.lewenstein@cornell.edu (e-mail)

blogs.cornell.edu/lewenstein (web)

Education

1987, PhD

Univ. of Pennsylvania, History & Sociology of Science; Science & Technology Policy.

1985, MA

Univ. of Pennsylvania, History and Sociology of Science.

1980, AB

Univ. of Chicago, Humanities. General and Special Honors.

Positions

2022-

University Ombuds, Cornell University, Ithaca, NY

2007-

Professor of Science Communication, Cornell University, Ithaca, NY, Departments of Communication and of Science & Technology Studies.

2022

Lady Davis Visiting Professor, Technion-Israel Institute of Technology, Haifa, Israel, Faculty of Education in Science and Technology

2014-2021

Chair, Department of Science & Technology Studies, Cornell University, Ithaca, NY.

2012

Presidential Fellow, Chemical Heritage Foundation (now Science History Institute), Philadelphia, PA.

2010-2012

Visiting Professor, Graduate University of Chinese Academy of Sciences, Beijing, China.

1997-2003

Editor, *Public Understanding of Science*, published by Sage Publications.

1993-2007

Associate Professor, Cornell University, Ithaca, NY, Departments of Communication and of Science & Technology Studies.

1987-1993

Assistant Professor, Cornell University, Ithaca, NY, Department of Communication (and, after 1991, Department of Science & Technology Studies).

1980-1987

A variety of reporting, writing, editing, and publishing positions, Washington, DC, and Philadelphia, PA

Honors and Awards (selected)

SUNY Chancellor's Award for Excellence in Faculty Service (2020)

Outstanding Faculty Award, Cornell CALS Alumni Association (2019)

Fulbright Specialist (Israel, 2011, Portugal 2022)

Merrill Presidential Scholar citation, Cornell University, for "most significant contribution to [scholar's] education" (2010)

Fellow, American Association for the Advancement of Science (elected 2002)

Distinguished Technical Communication Award, Society for Technical Communication (1986)

Professional Activities (selected)

American Association for the Advancement of Science: Committee on Public Understanding of Science & Technology (1992-1998); Chair, Section on Societal Implications of Science & Engineering (2011); Chair, Section on General Interest in Science & Engineering (2017)

Cornell University, faculty-elected member of Board of Trustees (2016-2020)

Embarcadero Media (publisher of community newspapers and related digital products, based in Palo Alto, California), board of directors (2015-present)

International Network on Public Communication of Science and Technology: founding member (1989); scientific committee (1994-2000); founder/webmaster of listserv and website (1995-2006)

National Academy of Sciences: Committee on Learning Science in Informal Environments (co-chair, 2006-2009); Roundtable on Public Interfaces of the Life Sciences (member, 2013-2015); Committee on Communicating Chemistry in Informal Environments (member, 2014-2016); Committee on Designing Citizen Science to Support Science Learning (member, 2017-2018)

Grants (selected)

Abraham Stroock et al., “Center for Research on Programmable Plant Systems” (NSF Science & Technology Center), \$25 million, 2021-2026 (**Bruce Lewenstein** is Associate Director for Public Engagement, and Research Lead for “Social and Ethical Engagement in Digital Biology [SEED]”)

Mark Sarvary, **Bruce Lewenstein**, and Cole Gilbert, “Minor in Applied Science Communication and Public Engagement,” Engaged Cornell initiative, Cornell University, planning grant, \$10,000, 2018-2019.

Anurag Agrawal, Steven Wolf, **Bruce V. Lewenstein**, “Scientific ambiguity and its consequences for a conservation icon: Case of the Monarch butterfly,” Cornell Atkinson Center for Sustainable Future, 2013-2015, \$100,000.

Bruce V. Lewenstein, “Workshop: Science identity and science communication in multicultural societies, a platform to evolve shared understandings and distinct perspectives of what is science communication,” Indo-US Science-Technology Forum, 2010, \$40,000.

Bruce V. Lewenstein, “Assessing models of ‘public understanding’ in ELSI outreach programs,” US Department of Energy, 2001-2005, \$238,403.

Bruce V. Lewenstein, “Workshop on public understanding of research in developing countries,” US National Science Foundation, 2002-2005, \$84,000.

Publications

Books

Lewenstein, Bruce V. (Ed.). (1992). *When Science Meets the Public*. Washington, D.C.: American Association for the Advancement of Science.

Kohlstedt, Sally G., Sokal, Michael, & **Lewenstein, Bruce V.** (1999). *The Establishment of Science in America: 150 Years of the American Association for the Advancement of Science*. New Brunswick, N.J.: Rutgers University Press.

Chittenden, David, Farmelo, Graham, & **Lewenstein, Bruce V.** (Eds.). (2004). *Creating Connections: Museums and the Public Understanding of Current Research*. Walnut Creek, CA: Altamira Press.

Bell, Philip, **Lewenstein, Bruce V.**, Shouse, Andrew, & Feder, Michael. (Eds.). (2009). *Learning Science in Informal Environments: People, Places, and Pursuits*. Washington, DC: National Academies Press.

Pandya, Rajul, & Dibner, Kenne Ann (Eds.). (2018). *Learning through Citizen Science: Enhancing Opportunities by Design*. Washington, DC: National Academies Press. [**Lewenstein** was member of authoring committee]

Thackray, Arnold. (2022). *Science: Has Its Present Past a Future?* (J. L. Sturchio & **B. V. Lewenstein**, Eds.). Seavoss Associates.

Articles and chapters in last 5 years (selected)

Entradas, Marta, Marcelino, Joana, Bauer, Martin W., & **Lewenstein, Bruce V.** (2019). Public communication by climate scientists: What, with whom, and why? *Climatic Change*, 154, 69-85. <https://doi.org/https://doi.org/10.1007/s10584-019-02414-9>

Phillips, Tina, Ballard, Heidi, Bonney, Rick, & **Lewenstein, Bruce**. (2019). Examining engagement in science through citizen science: Moving beyond data collection. *Science Education*, 103(3), 665-690. <https://doi.org/10.1002/sce.21501>

Lewenstein, Bruce V. (2019). Editorial introduction: The need for feminist approaches to science communication. *JCOM: Journal of Science Communication*, 18(4), online only. <http://doi.org/10.22323/2.18040301>

- Davies, Sarah R., Halpern, Megan, Horst, Maja, Kirby, David, & **Lewenstein, Bruce V.** (2019). Science stories as culture: Experience, identity, narrative and emotion in public communication of science. *JCOM: Journal of Science Communication*, 18(5), online only. <http://doi.org/10.22323/2.18050201>
- García-Guerrero, Miguel, & **Lewenstein, Bruce V.** (2020). Science recreation workshops groups in Mexico: a study on an emergent community. *International Journal of Science Education, Part B: Communication and Public Engagement*, 10(2), 133-148. <http://doi.org/10.1080/21548455.2020.1719293>
- Lopes de Oliveira, Diogo, Moreno, Erick, & **Lewenstein, Bruce V.** (2021). Media representations of official declarations and political actions in Brazil during the COVID-19 Pandemic. *Frontiers in Communication*. 6, Article 646445 (online only). <http://doi.org/10.3389/fcomm.2021.646445>
- Fahy, Declan, & **Lewenstein, Bruce V.** (2021). Scientists in popular culture. In Massimiano Bucchi & Brian Trench (Eds.), *Handbook of Public Communication of Science and Technology* (3rd ed., pp. 33-52). London: Routledge.
- Lewenstein, Bruce V. (2022, March). Is citizen science a remedy for inequality? *Annals of American Academy of Political and Social Science*, 700, 183-194. <https://doi.org/10.1177/00027162221092697>
- Lewenstein, Bruce V. (2022). What is science communication? *JCOM: Journal of Science Communication*, 21(7), online only. <https://doi.org/10.22323/2.21070301>
- Lewenstein, Bruce V.**, & Baram-Tsabari, Ayelet. (2022). How should we organize science communication trainings to achieve competencies? *International Journal of Science Education -- Part B: Communication and Public Engagement*, 12(4), 289-308. <https://doi.org/10.1080/21548455.2022.2136985>
- Rosin, Mark S., Storksdieck, Martin, O'Connell, Kari, Keys, Brianna, Hoke, Kelly, & **Lewenstein, Bruce V.** (2023). Broadening participation in science through arts-facilitated experiences at a cultural festival. *PLOS ONE*, 18(5), e0284432. <https://doi.org/10.1371/journal.pone.0284432>
- Lopes de Oliveira, Diogo, & **Lewenstein, Bruce V.** (2023). Activism in Latin America: The role of science communication and NGOs in socio-environmental conflicts. *Journalism Studies*, (published online ahead of print, 7 Aug 2023), <https://doi.org/10.1080/1461670X.2023.2241076>
- Kantar, Michael, Wang, Diane, Hale, Iago, Pratt, Richard C., Jensen, J. Vernon, & **Lewenstein, Bruce V.** (2023). Improving science communication in the agricultural sciences. *Agricultural and Environmental Letters*, 8(2), e20115. <http://doi.org/10.1002/ael2.20115>

Articles and chapters before 2016 (selected)

- Lewenstein, Bruce V.** (1992). The Meaning of 'Public Understanding of Science' in the United States After World War II. *Public Understanding of Science*, 1(1), 45-68.
- Lewenstein, Bruce V.** (1995). From Fax to Facts: Communication in the Cold Fusion Saga. *Social Studies of Science*, 25(3), 403-436.
- Lewenstein, Bruce V.**, & Allison-Bunnell, Steven W. (2000). Creating knowledge in science museums: Serving both public and scientific communities. In B. Schiele & E. H. Koster (Eds.), *Science Centers for This Century* (pp. 187-208). St. Foy, Quebec: Editions Multimondes.
- Nisbet, Matthew C., & **Lewenstein, Bruce V.** (2002). Biotechnology and the American media - The policy process and the elite press, 1970 to 1999. *Science Communication*, 23(4), 359-391.
- Brossard, Dominique, **Lewenstein, Bruce V.**, & Bonney, Rick. (2005). Scientific Knowledge and Attitude Change: The Impact of a Citizen Science Project. *International Journal of Science Education*, 27(9), 1099-1121.
- Lewenstein, Bruce V.** (2005). What counts as a "social and ethical issue" in nanotechnology? *Hyle: International Journal for the Philosophy of Chemistry*, 11(1), 5-18.
- Warren, Dana R., Weiss, Marissa S., Wolfe, David W., Friedlander, Blaine, & **Lewenstein, Bruce V.** (2007). Lessons from Science Communication Training (letter). *Science*, 316, 1122.
- McCallie, Ellen, Bell, Larry, Lohwater, Tiffany, Falk, John, Lehr, Jane H., **Lewenstein, Bruce V.**, Needham, Cynthia, & Wiehe, Ben. (2009). *Many Experts, Many Audiences: Public Engagement with*

Science and Informal Science Education. Washington, DC: Center for Advancement of Informal Science Education.

- Brossard, Dominique, & **Lewenstein, Bruce V.** (2009). A Critical Appraisal of Models of Public Understanding of Science: Using Practice to Inform Theory. In L. Kahlor (Ed.), *New Agendas in Science Communication* (pp. 11-39). Mahwah, NJ: Laurence Erlbaum Publishers.
- Lewenstein, Bruce V.** (2009). Science Books Since 1945. In D. P. Nord, J. S. Rubin & M. Schudson (Eds.), *The Enduring Book: Print Culture in Postwar America* (pp. 347-360). Chapel Hill: University of North Carolina Press.
- Laslo, Esther, Baram-Tsabari, Ayelet, & **Lewenstein, Bruce V.** (2011). A growth medium for the message: Online science journalism affordances for exploring public discourse of science and ethics. *Journalism*, 12(7), 847-870.
- Lewenstein, Bruce V.** (2011). Experimenting with Engagement.” *Science and Engineering Ethics*, 17(4), 817-821.
- Shirk, Jennifer L., Ballard, Heidi L., Wilderman, Candie C., Phillips, Tina, Wiggins, Andrea, Jordan, Rebecca, McCallie, Ellen, Minarchik, Matthew, **Lewenstein, Bruce V.**, Krasny, Marianne, Bonney, Rick. (2012). Public Participation in Scientific Research: A Framework for Intentional Design. *Ecology and Society*. 17(2), 29-48.
- Baram-Tsabari, Ayelet, & **Lewenstein, Bruce V.** (2013). An Instrument for Assessing Scientists’ Written Skills in Public Communication of Science. *Science Communication*, 35(1), 56-85.
- Lewenstein, Bruce V.** (2015). Identifying what matters: Science education, science communication, and democracy. *Journal of Research on Science Teaching*, 52(2), 253-262.
- Gustafsson, Karin M., Agrawal, Anurag A., **Lewenstein, Bruce V.**, & Wolf, Steven. (2015). The Monarch Butterfly through Time and Space: The Social Construction of an Icon. *BioScience*, 65(6), 612-622. doi: 10.1093/biosci/biv045.
- Lewenstein, Bruce V.** & Weitkamp, Emma (eds.) (2015). Special issues on citizen science. *JCOM: Journal of Science Communication*, 15(1) and 15(3), online only at <https://jcom.sissa.it/archive/15/01> and <https://jcom.sissa.it/archive/15/03>.
- Cooper, Caren B., & **Lewenstein, Bruce V.** (2016). Two meanings of citizen science. In D. Cavalier & E. B. Kennedy (Eds.), *The Rightful Place of Science: Citizen Science* (pp. 51-62). Tempe, AZ: Consortium for Science, Policy & Outcomes.
- Baram-Tsabari, Ayelet, & **Lewenstein, Bruce V.** (2017). Science Communication Training: What are We Trying to Teach? *International Journal of Science Education -- Part B: Communication and Public Engagement*, 7(3), 285-300. <http://doi.org/10.1080/21548455.2017.1303756>
- Lewenstein, Bruce V.** (2017). Scientific Controversies. In K. H. Jamieson, D. Kahan, & D. A. Scheufele (Eds.), *Handbook of Science of Science Communication* (pp. 73-78). New York: Oxford.

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