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LYNN K. NYHART
Curriculum vitae

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POSITIONS HELD

Jan. 1, 2012 – Vilas-Bablitch-Kelch Distinguished Achievement Professor, University of Wisconsin-Madison. Dept. of the History of Science. (Assistant Professor, Aug. 1988-June 1995; Associate Professor July 1995-June 2006; Full Professor July 2006) July 2000-June 2003; July 2010- June 2011. Chair, Department of the History of Science Aug. 1988-Aug. 2009. Joint-governance faculty member, Gender and Women's Studies Program (Aug. 2009- present: affiliate)
January - June 1993: Visiting Assistant Professor, History Department and Program in History of Science, Princeton University
September 1986 - August 1988: Assistant Professor, Lyman Briggs School and Department of History (joint appointment), Michigan State University (East Lansing)

EDUCATION

Ph.D., History and Sociology of Science, University of Pennsylvania (December 1986).
Dissertation: "Morphology and the German University, 1860-1900."
M.A., History and Sociology of Science, University of Pennsylvania (May 1982).
A.B., magna cum laude, History/History and Philosophy of Science, Princeton University (June 1979).

HONORS AND AWARDS

2014-2018: Senior Fellow, Institute for Research in the Humanities, UW-Madison (one of eight senior fellows total; 50% appointment)
2011-2016: Kellett Mid-Career Award, UW-Madison (five-year research award for distinguished scholarship, given to 11 faculty across the university; one of 3 in the humanities)
2011-12: Guggenheim Foundation Award
2009: Susan E. Abrams Prize of the University of Chicago Press (for the best book in the history of science published by the Press in the previous 2 years), for *Modern Nature*.
2008: "Honored Instructor," Chadbourne Residential College, UW-Madison
1999: Derek Price Award (for best *Isis* article in the previous 3 years), History of Science Society, for "Civic and Economic Zoology in Nineteenth-century Germany."
1985: Schumann Prize (best research article manuscript by a graduate student), History of Science Society, for "The Disciplinary Breakdown of German Morphology."

GRANTS AND FELLOWSHIPS

UW-Madison sabbatical leave, Spring semester 2017.
University of Sydney (Australia) International Research Collaboration Award (3-week residency for July/August 2016) with Warwick Anderson.

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UW-Madison Anonymous Fund grant for conference “What is an Individual? Where Philosophy, History, and Biology Coincide,” December 2012 (\$9000)
Faculty Outreach Fellowship, Holtz Center for Science and Technology Studies, UW-Madison, 2012-13 (for outreach events associated with “What is an Individual?” conference, \$5000)
Cain Conference Fellow, Chemical Heritage Foundation, 2012 (invited to organize conference of my choice at CHF in spring 2012; budget: \$35,000)
UW-Madison Graduate School Research Award, 2011-12: one-semester teaching release plus \$10,000 research allowance
Center for German and European Studies, 2011: research award (\$1500)
National Science Foundation Doctoral Dissertation Research Grant (PI/supervisor), 2009-2010: Judith Kaplan, “Linguistic and Orientalist Research in Late Nineteenth-Century Germany.” (\$13,243)
UW-Madison Vilas Associate Award, July 2004-June 2006
National Science Foundation Doctoral Dissertation Improvement Grant (PI/supervisor), 2004-05: Christina Matta: The Science of Small Things: The Botanical Context of German Bacteriology, 1830-1910.” (\$10,000)
UW-Madison sabbatical leave, Sept. 2003-May 2004.
UW-Madison Graduate School grant (salary), Summer 2002.
UW-Madison Center for the Humanities Mellon Workshop Grant, “Museum Worlds: Past, Present, Future” (with Mark Kenoyer), Sept. 2001-May 2002.
National Science Foundation Grant, Jan. 1, 2000- Dec. 31, 2000, with Tom Broman, for Science and Civil Society conference, April 14-16, 2000.
University of Wisconsin Anonymous Fund Grant (for Science and Civil Society conference)
Junior Fellow, University of Wisconsin, Institute for Research in the Humanities, Spring 2000
American Council of Learned Societies Fellowship, September 1997-June 1998
Howard Foundation Fellowship, August 1997-June 1998
University of Wisconsin Graduate School Grant (salary), Summer 1997
National Science Foundation Scholar’s Award, July 1, 1996-June 30, 2000, “Civic Natural History in Germany, 1840-1925”
American Philosophical Society Research Grant, Summer 1995
University of Wisconsin Graduate School Grant (supplementation), Summer 1995
University of Wisconsin Graduate School Grant (salary), Summers 1992, 1991
National Science Foundation, Scholars Award, 1989-91, “Animal Morphology and the German Universities”
University of Wisconsin Graduate School Grant, Fall 1989
National Endowment for the Humanities, Summer Stipend, 1988
American Council of Learned Societies, Grant-in-Aid, 1988
American Council of Learned Societies, Grant for Travel to International Meetings, 1988

PUBLICATIONS

Books and Collections

Co-editor, with Florence Vienne, “Revolutionary Politics and Biological Organization in Nineteenth-Century France and Germany,” Special issue of *Historical Studies in the Natural Sciences*, 47 (5), November 2017: 589-677.

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Co-editor, with Scott Lidgard: *Biological Individuality: Integrating Scientific, Philosophical, and Historical Perspectives*. Chicago: University of Chicago Press, 2017. 361 pages.

Modern Nature: The Rise of the Biological Perspective in Germany. Chicago: University of Chicago Press, 2009. 423 pages.

Des sciences citoyennes? La question de l'amateur dans les sciences naturalistes (Citizen sciences? The question of the amateur in the natural-history sciences). La Tour d'Aigues (France): Editions de l'Aube, 2007. Co-editor, with Florian Charvolin and André Micoud.

Science and Civil Society. *Osiris*, vol. 17, 2002. Co-editor with Thomas H. Broman. *Osiris* is the annual research journal of the History of Science Society. 373 pages.

Biology Takes Form: Animal Morphology and the German Universities, 1800-1900. Chicago: University of Chicago Press, 1995. 414 pages.

Scholarly Articles and Chapters:

“Chapter 20: Publics and Practices,” in *Worlds of Natural History*, edited by Nicholas Jardine, James Secord, Emma Spary, and Helen Curry. Cambridge University Press, in production.

Lynn K. Nyhart and Florence Vienne, “Introduction to Special Issue: Revolutionary Politics and Biological Organization in Nineteenth-Century France and Germany,” 589-601.

“The Political Organism: Carl Vogt on Animals and States in the 1840s and 50s,” *Historical Studies in the Natural Sciences*, 47(5), November 2017: 602-628.

Lynn K. Nyhart and Scott Lidgard: “Introduction: Working Together on Individuality,” in *Biological Individuality*, edited by Scott Lidgard and Lynn K. Nyhart. Chicago: University of Chicago Press, 2017.

Scott Lidgard and Lynn K. Nyhart: “Chapter 1: The Work of Biological Individuality Concepts” in *Biological Individuality*, edited by Scott Lidgard and Lynn K. Nyhart. Chicago: University of Chicago Press, 2017.

Lynn K. Nyhart and Scott Lidgard: “Chapter 6: Alternation of Generations and Individuality, 1851,” in *Biological Individuality*, edited by Scott Lidgard and Lynn K. Nyhart. Chicago: University of Chicago Press, 2017.

“Historiography of the History of Science,” in *A Companion to the History of Science*, ed. Bernard Lightman. Chichester, UK: John Wiley and Sons, 2016, pp. 7-22.

“*Wissenschaft and Kunde: The General and the Special in Modern Science*” *Osiris 27: When Clio Meets Science*, ed. Kathryn Olesko and Robert E. Kohler. University of Chicago Press, 2012, pp. 250-275.

“Voyaging and the Scientific Expedition Report, 1800-1940,” in *Science in Print: Essays on the*

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History of Science and the Culture of Print, ed. Greg Downey, Rima Apple, and Christine Pawley. Madison: University of Wisconsin Press, 2012, pp. 65-86.

“Individuals at the Center of Biology: Rudolf Leuckart’s *Polymorphismus der Individuen* and the Ongoing Narrative of Parts and Wholes. With an Annotated Translation,” with Scott Lidgard. *Journal of the History of Biology*. 2011, 44: 373-443.

“Emigrants and Pioneers: Moritz Wagner’s ‘Law of Migration’ in Context.” In *Knowing Global Environments: New Historical Perspectives in the Field Sciences*, ed. Jeremy Vetter. New Brunswick, NJ: Rutgers University Press, 2010, pp. 39-58.

“Embryology and Morphology,” *Cambridge Companion to the Origin of Species*, ed. Michael Ruse and Robert J. Richards. Cambridge, England: Cambridge University Press, 2008, pp. 194-215.

“Rendre vivant l’histoire naturelle à la fin du XIXe siècle en Allemagne” [Bringing natural history to life in late nineteenth-century Germany], in *Des sciences citoyennes? La question de l’amateur dans les sciences naturalistes*, ed. Florian Charvolin, André Micoud, and Lynn K. Nyhart. La Tour d’Aigues: Editions de l’Aube, 2007, pp. 74-89.

“Kundekunde, oder: das Allgemeine im Museum,” [Knowledge of knowledge, or, the general in the museum] in *Der Hochsitz des Wissens: Das Allgemeine als wissenschaftlicher Wert*. ed. Michael Hagner and Manfred D. Laubichler. Zurich/Berlin: Diaphanes, 2006, pp. 207-237.

“Science, Art, and Authenticity in Natural History Displays,” in *Models: The Third Dimension of Science*, ed. Soraya de Chaderavian and Nick Hopwood. Palo Alto: Stanford University Press, 2004, pp. 307-335.

“The Importance of the ‘Gegenbaur School’ for German Morphology,” *Theory in Biosciences*, 2003, Issues 2-3: Commemorating the 100th anniversary of Carl Gegenbaur’s death, pp. 162-173. (The double issue published in Russian as *Evolutionary Morphology: From Carl Gegenbaur to the Present*, Fineday Press, 2004.)

“Teaching Community via Biology in Late Nineteenth-Century Germany,” *Osiris*, 2002, 17: 141-170. *Science and Civil Society*, ed. Lynn K. Nyhart and Thomas H. Broman.

“Learning from History: Morphology’s Challenges in Germany circa 1900,” *Journal of Morphology*, 2002, 252: 2-14.

“Die Umgestaltung der musealen Naturgeschichte” [The transformation of museum natural history], in *Renaissance der Kulturgeschichte? Die Wiederentdeckung des Maerkischen Museums in Berlin aus einer europäischen Perspektive*, [Renaissance of cultural history? The rediscovery of the Maerkischen Museum in Berlin from a European perspective.] ed. Sven Kuhrau and Alexis Joachimedes. Dresden: Verlag der Kunst, 2001, pp. 109-121

“Civic and Economic Zoology in Nineteenth-Century Germany: The Living Communities of Karl Möbius.” *Isis*, December 1998, 89: 605-630. (Winner, 1999 Derek Price Prize from the

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History of Science Society).

"Home Economists in the Hospital, 1900-1930," in *Rethinking Home Economics: Women and the History of a Profession*, ed. Sarah Stage and Virginia Vincenti. Ithaca: Cornell University Press, 1997, pp. 125-144.

"Natural History and the 'New' Biology," in *Cultures of Natural History*, ed. Nicholas Jardine, James Secord, and Emma Spary. Cambridge: Cambridge University Press, 1996, pp. 426-441.

"Essay Review: Biology and Imperialism," *Journal of the History of Biology*, Fall 1995, 28 (3): 533-543.

"Writing Zoologically: The *Zeitschrift für wissenschaftliche Zoologie* and the Zoological Community in Late Nineteenth-Century Germany," in *The Literary Structure of Scientific Argument: Historical Studies*, ed. Peter Dear. Philadelphia: University of Pennsylvania Press, 1991, pp. 43-71.

"The Disciplinary Breakdown of German Morphology, 1870-1900," *Isis*, 1987, 78: 365-389 (Winner, Schuman Prize, History of Science Society)

Informal and General-Audience Writings:

"Life after Death: The Gorilla Family of the Senckenberg Museum (Frankfurt/Main)," Lost and Found column, *Endeavour* 37 (4): December 2013, pp. 235-238.

"The Shape of the History of Science Profession, 2038: A Prospective Retrospective," *Isis* Focus Section, "The Future of the History of Science," *Isis* 104, 2013: 131-139.

"From the President: Making a Difference," *HSS Newsletter*, January 2013, pp. 1-3.

"From the President: History of Science Unbound," *HSS Newsletter*, January 2012, pp. 1-2, 4.

"Ernst Haeckel," (2255 words), *New Dictionary of Scientific Biography*, ed. Noretta Koertge. New York, NY: Charles Scribner and Sons, 2007.

"Moritz Wagner," (1200 words), *New Dictionary of Scientific Biography*. ed. Noretta Koertge. New York, NY: Charles Scribner and Sons, 2007.

"Museums" (1500 words), *Europe 1789-1914: Encyclopedia of the Age of Industry and Empire*, ed. John Merriman and Jay Winter. (Farmington Hills, MI: Charles Scribner's Sons, 2006).

"History of Inheritance" (1400 words) for *Biology: MacMillan Science Library*, gen. ed. Richard Robertson (MacMillan Library Reference, 2002)

"Quand l'Homme s'expose aux cotés du singe," [When man displays himself next to the monkey] *Les Cahiers de Science & Vie*, No. 49, Février 1999: 91-96.

Recent Book Reviews:

“Interpreting Visual Cultures of Science.” Essay review of Klaus Hentschel, *Visual Cultures in Science and Technology: A Comparative History*. Oxford University Press, 2014; Daniel Margócsy, *Commercial Visions. Science, Trade, and Visual Culture in the Dutch Golden Age*. Chicago and London: University of Chicago Press, 2014; and Karen A. Rader and Victoria E. M. Cain, *Life on Display: Revolutionizing U.S. Museums of Science and Natural History in the Twentieth Century*. Chicago and London: University of Chicago Press, 2014. In *Annals of Science*. online 29 July 2016. doi: 10.1080/00033790.2015.1067115

“Speaking of Science: How English Became the Language of Science.” Review of Michael D. Gordin, *Scientific Babel: How Science Was Done Before and After Global English*. Chicago: University of Chicago Press, 2015. In *Science*, 10 April 2015, 348 (6231): 192.

Todd Weir, ed., *Monism: Science, Philosophy, Religion, and the History of a Worldview*. New York: Palgrave Macmillan, 2012. In *German History*, 2014, 32(3): 474-476.

Kristin Johnson, *Ordering Life: Karl Jordan and the Naturalist Tradition*. Baltimore: Johns Hopkins University Press, 2012. In *Isis*, 2013, 104: 855-856.

Samuel J. M. M. Alberti (Editor). *The Afterlives of Animals: A Museum Menagerie*. Charlottesville: University of Virginia Press, 2011. In *Isis*, 2012, 103: 566-567.

“Making German Evolution: Translation and Tragedy,” Review of Robert H. Richards, *The Tragic Sense of Life: Ernst Haeckel and the Struggle over Evolutionary Thought*. Chicago: University of Chicago Press, 2008, and Sander Gliboff, *H. G. Bronn, Ernst Haeckel, and the Origins of German Darwinism: A Study in Translation and Transformation*. Cambridge, MA: MIT Press, 2008. In *Science*, 27 February 2009, 323: 1170-71.

David LeBrun, *Proteus: A Nineteenth-century Vision* [film]. New media review, *Bulletin of the History of Medicine*, Summer 2009, 83(2): 383-384.

“Darwin and Visual Culture,” Essay review of Julia Voss *Darwins Bilder: Ansichten der Evolutionstheorie 1827 bis 1874*. Frankfurt/Main: Fischer Taschenbuch Verlag, 2007; and Jonathan Smith, *Charles Darwin and Victorian Visual Culture*. Cambridge: Cambridge University Press, 2006. In: *NTM - Zeitschrift für Geschichte der Wissenschaften, Technik und Medizin*, 16 (4) Nov. 2008, 16 (4): 499-503

Jim Endersby, *A Guinea Pig's History of Biology*. Cambridge, MA: Harvard University Press, 2007. In *Nature Genetics*, April 2008, 40 (4): 127.

Laura Otis, *Müller's Lab*. New York: Oxford University Press. In *Science*, 21 September 2007, 317: 1685.

SCHOLARLY TALKS, INVITED LECTURES, AND PRESENTATIONS

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“The Great Disruption: Biologists, Revolutions, and the Values of Science ca. 1848,” Keynote lecture for conference “Science, Religion, and Political Dissent in the Long Nineteenth Century, Ludwig-Maximilian-Universität Munich, 16-17 February 2018; University of Wisconsin—Madison Focus on the Humanities Lecture, 21 February 2018. In preparation.

“Scholars and Citizen Action: The Lessons of 1848,” Plenary Panel, History of Science Society Annual Meeting, 9 November 2017, in session “Science and the Citizen in the 21st Century.”

“Defending Science: 1848 and Today,” Keynote lecture, Southern History of Science and Technology Annual Meeting, Vanderbilt University, 7 April 2017

“Reproducing Science: William B. Carpenter and the British Reception of German Ideas on Generation, 1839-1854.” History of Science Society Annual Meeting, San Francisco, 21 November 2015, in session “The Quest for Universality: National and Transnational Perspectives on Nineteenth-century Cell and Reproduction Research.”

“Spermatid Fluidity: The Analogical Method in the Study of Generation, 1830-1850.” Talk at International Society for the History, Philosophy, and Social Studies of Biology, Montreal, 7 July 2015, in session “Slippery Creatures: Zoophytes, Animalcules, and Spermatozoa in the Nineteenth Century” (Session organizer.)

“What’s (Like) What? Analogizing Plants, Animals, Sperms, and Cells in the 1830s-40s. Invited Lecture, Program in History of Science and Medicine, Yale University, 20 April 2015.

“Comparative Chaos: Microscopic Comparative Anatomy and Physiology in the 1830s and 1840s.” Colloquium for Research Group on “The Construction of Norms in 17th- to 19th-Century Europe and the United States” (Sabine Arnaud), Max Planck Institute for the History of Science, Berlin, 25 March 2015.

“Changing Natures: Temporal Scale in the Life of the Museum and Its Objects,” Keynote lecture for Knowing Things: Circulations and Transitions of Objects in Natural History, International Conference, Museum für Naturkunde Berlin, March 23, 2015.

“Zoology Botany, and the History of Biology (as seen through Alternation of Generations),” University of California-San Diego Science Studies Program colloquium, 20 October 2014.

“Zoology, Botany, and the History of ‘Biology,’” Keynote lecture, Columbia History of Science Group, Friday Harbor Labs, Washington, 7 March 2014.

“Alternation of Generations as a Model for Evolution: A Surprise from the Nineteenth-Century.” Invited Lecture, University of Puget Sound, 6 March 2014.

“Widening Our Professional Horizons: What Academics Can Do.” Invited presentation for panel “Happiness beyond the Professoriate - Advising and Embracing Careers Outside the Academy,” History of Science Society Annual Meeting, 23 November 2013.

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“The 'Studies' Phenomenon and STS: A historical perspective.” UW Science and Technology Studies brown bag lunch presentation, 3 October 2013.

“Individuality and the Division of Labor,” presented at biennial meeting of the International Society for History, Philosophy, and Social Studies of Biology, Montpellier France, 8 July 2013.

“Alternation of Generations—1851,” precirculated paper at conference “What is an Individual? Where Philosophy, History, and Biology Coincide,” Wisconsin Institutes for Discovery, December 15-17, 2012. (Also co-organizer of conference.)

“Six Major Transitions in Evolutionary Thought,” invited presenter for “Evolutionary Transformations” panel at National Association of Biology Teachers Annual Meeting, Nov. 2, 2012.

Chair and Commentator for Session, “The Sense of Things: Perception as Practice in Educational Settings,” Joint meeting of the History of Science Society, Canadian Society for the History and Philosophy of Science, and British Society for the History of Science, 14 July 2012.

“Alternation of Generations as a Model for Evolution,” presented at conference “*E pluribus unum*: Bringing Biological Parts and Wholes into Historical and Philosophical Perspective,” Chemical Heritage Foundation, 3-5 May 2012 (also co-organizer of conference). Revised versions presented at Notre Dame’s conference to welcome the History of Science Society’s Executive Office, 8 June, 2012, and History of Science Society Annual Meeting, 17 Nov. 2012.

“The Political Organism: Karl Vogt and Biological Politics in the 1840s and 1850s” precirculated paper for discussion at the Davis Center, Princeton University History Department, 7 October 2011.

“Scaling Up: Generalizing in the “Modern” Natural History Sciences, 1890-1940,” invited presentation at “Science and Its Histories,” conference at The Huntington Library, 24-25 September 2010. Also presented Northwestern University, 28 Feb 2011 and Imperial College, London, 23 June 2011.

“The Rise of the Biological Perspective: A Story of the Travels of Ideas and Values through German Society,” UW STS Program Brown Bag presentation, 3 December 2009.

“Geographic Isolation and Evolution from Moritz Wagner to Ernst Mayr,” invited paper presented at “Darwin/Chicago 2009,” University of Chicago, 30-31 October 2009; another version presented at UW-Madison History of Science Colloquium, 22 September 2009.

Comment on Trevor Pearce, “From ‘Circumstances’ to ‘Environment’—Herbert Spencer and the Origins of the Idea of Organism-Environment Interaction,” at “Origins: University of Chicago-Max-Planck Institute Workshop on the History of the Historical Sciences,” June 5-6, 2009.

“Natural History as an Evolving Social System in Germany and the United States, 1880-1925,” invited colloquium at Indiana University, History and Philosophy of Science Department, 20 February 2009.

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"How Did Nature Become Modern? What a Story from Late-Nineteenth-Century Germany Can Tell Us," UW Environmental Breakfast Seminar, 28 April 2009.

"Marine Biology as Big Science in Late Nineteenth-Century Germany." Invited paper presented at conference: Müllers Vision. Das wissenschaftliche Vermächtnis des Naturforschers Johannes Müller, Berlin, Germany, 10-11 October 2008.

"Big Natural History: Deep-Sea Voyages and Their Reports, 1872-1940." The Culture of Print in Science, Technology, Engineering, and Medicine (STEM), Conference at the UW-Madison, 12-13 September 2008.

"Nature for the Trader: Exhibiting Nature at the Bremen Museum for Natural History, Ethnology, and Commerce ca. 1900." Presented at Visualizing Science: Part 3 of New Directions in Visual Culture, UW-Madison, 8 February 2008.

"Emigration, Migration, Annexation: The Strange History of the *Lebensraum* concept in German Geography." Paper presented in session "Going Global? German Scientists and Their Migrations" (organized by me) at History of Science Society Annual Meeting, Crystal City, VA, Nov. 1-4, 2007.

"Emigrants and Pioneers: Moritz Wagner's 'Law of Migration' in Context." Invited precirculated paper presented at a conference on "Knowing Global Environments: New Historical Perspectives on the Field Sciences," University of Pennsylvania, May 10-12, 2007.

"Embryology and Morphology." Precirculated paper presented at William H. and Lucyle T. Werkmeister Conference on the Origin of Species, Florida State University, 23-24 March 2007. (Invited speaker.)

"Individuals and Species in the Nineteenth Century." 4th Biennial Conference on the Developmental Basis of Evolutionary Change, University of Chicago, 20-23 October 2005. (Invited plenary speaker.)

"Domesticating Nature? The Aquarium Hobby in Germany, 1856-1914." Paper presented at the International Society for the History, Philosophy, and Social Studies of Biology biennial meeting, Guelph, Ontario, 14-17 July 2005 and at the German Studies Association, Milwaukee, WI, 1 October 2005.

"Caring for Nature: Practical Zoology and Nature Protection in Nineteenth-century Germany." Invited talk for MIT seminar series "Modern Times, Rural Places," 18 February 2005. Also presented as a UW-Madison History of Science colloquium in January 2005.

"Bringing Natural History to Life: 'Practical' Natural History, Museums, and Zoos in mid-nineteenth-century Germany." History of Science Society Annual Meeting, Austin, Texas, 19 November 2004. A paper similar in title but somewhat different in content was presented at the international conference "Citizen Sciences: Collective Vigilance and Relations between Laymen and Scientists in Natural History," Saint-Etienne, France, 13-14 January, 2005.

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Commentator for session: "Science across Divides: Helmholtz, Haeckel, Pearson, and James Confront the Modern Self and World." History of Science Society Annual Meeting, Cambridge, Mass., 20-23 November 2003.

"Marine Ecology in the Natural History Museum, 1890-1925." In session: "Topographies of Knowledge Production in Aquatic Ecology - the German-speaking World, 1870-1940." International Society for History, Philosophy, and Social Studies of Biology biennial meeting, Vienna, Austria, 17-20 July 2003.

Commentator for session: "Exhibiting Humans and Animals: Public Displays of Zoological, Anatomical, and Anthropological Knowledge in Vienna, 1860-1940." International Society for History, Philosophy, and Social Studies of Biology biennial meeting, Vienna, Austria, 17-20 July 2003.

"Biology in the Modern Museum: Germany, 1880-1914," Paper for "Middle Modernity" interdisciplinary group, UW-Madison, 7 March 2003.

"The Ocean in the Museum." In session: "Borders: Place, Culture, Practice." History of Science Society Annual Meeting, Milwaukee, 8 Nov. 2002.

Commentator for session: "Creating an Eternal Nation: Popular Science and Historical Knowledge in Imperial Germany," German Studies Association, San Diego, 4 Oct. 2002.

"On (Not) Fitting In: Meereskunde, Marine Biogeography, and Disciplinary Structures of Knowledge in Germany, 1889-1930" for Workshop, "Über die Bedeutung des Allgemeinen in den Wissenschaften des 19. und 20. Jahrhunderts," Max Planck Institute for the History of Science, Berlin, Germany, 21-22 June 2002.

"The Universal Science of the Sea: Ambitions for Oceanography at the Beginning of the Twentieth Century." Princeton University Colloquium, 7 Dec. 2001.

"Learning from History: Morphology's Challenges in Germany ca. 1900." Opening keynote address at the Sixth International Congress of Vertebrate Morphologists, Jena, Germany, 21 July 2001.

"Science and Sensation: The Aesthetics of 'the Natural' in Turn-of-the-Century Natural History Museums," presented at the Elvehjem Museum of Art, University of Wisconsin-Madison, in conjunction with the exhibition, "Cabinets of Curiosities: Four Artists, Four Visions," 19 November 2000.

"Die Umgestaltung der musealen Naturgeschichte," presented (in German!) at conference titled "Renaissance der Kulturgeschichte? Die Zukunft des Märkischen Museum," 9-10 October 1999.

"The Museum Setting and the Environmental Perspective," presented at biennial meeting of the International Society for History, Philosophy, and Social Studies of Biology, 9 July 1999.

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“The Ape in the Museum: From Dangerous Predator to Gentle Giant,” presented at the Fourth Interdisciplinary Conference on Human Relations with Animals and the Natural World: “Representing Animals: Framing Wildlife for Public Consumption in Zoos, Museums, and on Film,” University of Pennsylvania, 19 March 1999; (in different form) at California Institute of Technology, Seminar on Science, Ethics, and Public Policy, 3 Dec. 1999; at the University of Minnesota, April 21, 2000; and at the University of California-Berkeley, April 9, 2001.

“Science, Art, and Authenticity in German Natural History Displays, 1880-1920,” presented at the History of Science Society Annual Meeting, 22-25 October 1998 (session organizer), and (in slightly different form) at the Symposium on “Models in the Sciences, Technology, and Medicine: Displaying the Third Dimension,” 13-14 November 1998.

“Civic Zoology and the Construction of Nature in German Museums, 1890-1918.” Paper presented at Colloquium für Examenskandidaten und Fortgeschrittene, Humboldt-Universität zu Berlin, under the auspices of Prof. Rüdiger vom Bruch, Institut für Geschichtswissenschaften, 28 May 1998, and at the History of Science Colloquium, University of Wisconsin-Madison, 9 September 1998.

"Creating a 'Public' Nature and a 'Professional' Nature: The New Museum Idea in German Natural History," Paper presented at the American Historical Association, Seattle, Washington, January 8-11, 1998; a longer version delivered as an invited lecture at the Universities of Manchester and Cambridge, Feb. 24-26, 1998.

"Living Environments at Work: Ecology and the Social Worlds of Karl Möbius," Paper presented at International Society for the History, Philosophy, and Social Studies of Biology, Seattle, Washington, July 19, 1997

"Organic Individuality and Biological Politics in Britain and Germany, 1845-1860," Paper presented to Northwestern University History and Philosophy of Science program, January 19, 1996.

"For Heimat and Empire: German Zoos, 1860-1880," Paper presented at International Society for the History, Philosophy, and Social Studies of Biology, Leuven, Belgium, July 20-23, 1995 (session organizer).

"Animal Individuality and Biological Politics, 1848-1860," Paper presented at conference "T. H. Huxley: Victorian Science and Culture," Imperial College, London, April 20-21, 1995 (invited speaker).

"Karl Friedrich Burdach and the Science of Form." Morris Fishbein Center for the History of Science and Medicine, University of Chicago, May 1994

"Beyond the Universities: Alternative Settings for Zoological Research, 1880-1910." History of Science Society, November 1993

"In and Out of the Ivory Tower: Zoological Employment and the Shape of Research in Late Nineteenth-Century Germany." History of Science Departmental Colloquium, University of Wisconsin-Madison, October 1993

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"Home Economists in the Hospital, 1900-1930." "More than Glorified Housekeeping": Rethinking Women and Home Economics in the 20th Century, Cornell University, September 1991.

"Men Adapting: Darwinism and Haeckelism in German Zoology." International Society for the History, Philosophy and Social Studies of Biology, Evanston, Ill., July 1991

"Evolution and Morphology among the Zoologists, 1860-1880." Colloquium Series in History of Science, Dept. of History, Princeton University, February 1990

"On the History of 'Biology' in Nineteenth-Century Germany." Different versions delivered at Dept. of History and Sociology of Science, University of Pennsylvania, October 1989, and University of New Haven, November 1989

"The Problem of the Organic Individual in Mid-Nineteenth Century German Biology." Owen Wangensteen Library Lecture Series in Biology and Medicine, University of Minnesota, May 1989; First International Summer School in the History and Philosophy of Science, Humboldt-Universität Berlin (East Germany), June 1988

"German Zoologists and the Reception of Darwinism." Dept. of History of Science, University of Wisconsin, December 1987; Faculty Colloquium, Biology Dept. and Science, Technology and Society Program, Michigan Technological University, February 1987

"German Morphology in the Late Nineteenth Century: an Historian's Dilemma." History of Science Society, Raleigh, N.C., October 1987

"The Collapse of German Morphology." Summer Conference in the History, Philosophy, and Social Studies of Biology, South Bend, Indiana, June 1985

"Hermann Braus and the Problem of the Extremities." Joint Atlantic Seminar in the History of Biology, Toronto, April, 1985

"Academic Networks and Women Scientists: The Naples Table Association, 1898-1914." History of Science Society, Norwalk, Conn., October 1983

"Introducing Scientific Management into the Home: Efficiency and the Home Economics Movement, 1900_1920." Society for the History of Technology, Philadelphia, October 1982

Work in Progress:

"Alternation of Generations as a Model for Evolution," article in preparation.

Parts and Wholes: The Biological Individual in the Nineteenth Century. Book-length monograph in progress, with Scott Lidgard.

TEACHING

Courses Taught (most recent year listed; one-time special topics courses marked with an asterisk):

- HistSci 909: Graduate Seminar in History of Biology and Medicine. Special topics:
- *Nationalism, Internationalism, and Transnationalism in the Modern Life Sciences (Fall 2017)
 - *The New History of Natural History (with Tom Broman, Fall 2015)
 - *Biology-Society Analogies, 1750s-1970s (Spring 2011)
 - *History of Biogeography, 1750-1950 (Spring 2009)
 - *Nature and Culture in the Museum, 1850-1940 (Fall 2004)
 - *Women, Gender, Natural History, and Evolution: 19th and 20th century interactions (Fall 2001)
 - *Elite and Popular Biology in Germany, England, and America, 1880-1945 (Spring 1997)
 - *History of Natural History (ancient Greeks to 20th century). (1995-96; 2 semesters, co-taught with Tom Broman)
 - *Visual Representations in the History of Biology (Fall 1990)
 - *National Styles in Biology (Fall 1988)
- HistSci 720: Proseminar in Historiography and Methods (Fall 2000)
- HistSci 615: History of Evolutionary Thought (Fall 2014)
- HistSci 555: Senior Seminar (Capstone course in the major)
- *Making Visible (Spring 2014)
 - *Multimedia Science, Technology, and Medicine (Spring 2013)
 - *“Progress” in Science, Technology, and Medicine (Spring 2010)
 - *Science, Technology, and Medicine in Wisconsin, 1848-1948 (Spring 1994)
 - *American Science and Its Publics (Spring 1991)
- HistSci 350: Special Topics:
- *Science and Literature in Victorian Culture (with Susan Bernstein; Fall 2009)
- HistSci 343: The Darwinian Revolution (Fall 2017)
- HistSci 333: History of Modern Biology (Fall 2015)
- HistSci 280: Honors Research Seminar:
- *Exploring the Oceans, 1850-1940 (Fall 2005)
 - *The Double Helix: Legend and Legacies (Fall 1997)
- HistSci 180: Freshman Honors Seminar:
- *Evolution and Worldview (FIG core course, Fall 2014)
- HistSci/ILS 202: The Making of Modern Science (Spring 2013)
- ILS 275: Knowing Science through Its Objects (FIG core course, Fall 2013)
- Inter-L&S 102: Making Meaning in an Evolutionary World (FIG core course, Fall 2007)
- Women’s Studies 530: Biology and Gender (Fall 1993)
- English 175H: Literature and the Other Disciplines: Victorian Literature, Science, and Culture (with Susan Bernstein, Fall 2004)

Dissertations supervised:

- Daniel Liu, “Molecules in Biology Before Molecular Biology, 1890-1950” (2016)
- Judith Kaplan, “Language Science and Orientalism in Imperial Germany” (2012)

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- Christina Matta, “The Science of Small Things: The Botanical Context of German Bacteriology, 1830-1910” (2007)
- Erika Milam, “Looking for a Few Good Males: Female Choice in Evolutionary Biology, 1915-1975” (co-advisor with Gregg Mitman; 2006)
- Michael F. Robinson, “The Coldest Crucible: Arctic Exploration and American Culture, 1859-1910” (2002)
- Hae-Gyung Geong, “Exerting Control: Biology and Bureaucracy in the Development of American Entomology, 1870-1930” (1999)
- Robert A. Lovely, “Mastering Nature's Harmony: Stephen Forbes and the Roots of American Ecology” (1995)

Other teaching:

- Ischia Summer School on the History of the Life Sciences: *Cycles of Life*, 23 June – 1 July 2017
- University of Sydney, HPS Winter School: *Philosophical and Historical Dimensions of Biological Individuality*, 18-21 July 2016. Co-organizer.
- Arizona State University-Marine Biological Laboratory Summer School: *Why Marine Studies?* 18-25 May 2016
- Ischia Summer School on the History of the Life Sciences: *Geographies of Life*, 27 June- 3 July 2015
- Arizona State University-Marine Biological Laboratory Summer School: *From Linnaeus to the Encyclopedia of Life: Tracking Diversity in the Natural World*, 18-25 May, 2010.

PROFESSIONAL SERVICE

History of Science Society:

- Co-Chair, Strategic Planning Committee (Oct. 2013-Nov. 2014)
- President, Jan. 2012 – Dec. 2013 (Vice-President, 2010-2011)
- Price-Webster Prize Committee (for best *Isis* essay), 2009
- Women’s Caucus co-chair, 2006-8
- Council, 2003-05
- Committee on Honors and Prizes, 2002-03
- Annual Meeting Program co-chair, 2000
- Nominating Committee, 1999
- Independent Scholars Committee (Chair); Committee on Research and the Profession, 1990-1992

International Society for the History, Philosophy, and Social Studies of Biology:

- Nominating Committee, 1990, 2013-15
- Publications Committee, 2005-07
- Program Officer for 2005 meeting (organized 2005 meeting program)
- Council, 2003-05
- Operations Committee, 2001-2003, 2005-07
- Travel Scholarships Committee, 1999-2001
- Program Committee, 1997-99

Isis advisory editorial board, 2016-

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Journal of the History of Biology, Associate Editor, 2015- (Editorial Board, 2005-15)
American Council of Learned Societies fellowships panel reviewer, 2014, 2015 (50 applications annually)
Advisory Board, Philadelphia Area Center for the History of Science, Sept. 2011-
Editorial Advisory Board, Nineteenth-Century Science and Culture series, University of Pittsburgh Press, 2010- present
Advisory Committee, "Shaping Evolutionary Biology in Berkeley's Museum of Vertebrate Zoology," NSF-funded project (PI Cathryn Carson), 2007-12 (advised on structure, progress of project.)
Stearn Prize Committee, British Society for the History of Natural History, for best submitted student essay, 2007, 2008
Consulting Editor, *Studies in History and Philosophy of Biological and Biomedical Sciences*, 2005-08
Consulting Editor, History of Life Sciences, *New Dictionary of Scientific Biography* (responsible for selecting approximately 20 articles updated from the original DSB, and another dozen new articles; finding authors for them; and reviewing submitted articles), 2005-07
Organizing committee, "Citizen Sciences" conference, Université St.-Etienne, France, 13-15 January 2005 (in 2004 recruited scholars, helped with translation and editing of proposal in English; in 2006 was made volume co-editor for English language articles, editing manuscripts; in 2007, checked translations for final version in French.)
Advisory Board, "Studies in Botanical History," a new series published by New York Botanical Garden Press, 2005-
Jury Chair, first Susan E. Abrams Prize for best book or ms. in history of science accepted by the University of Chicago Press, 2003
Advisory Board, *Isis: An International Review Devoted to Science and its Cultural Influences*, 1999-2002
Book Review Board, *Journal of the History of Biology*, 1990-98 [disbanded 1998]
Reviewer for Howard Foundation Faculty Fellowships, 2003-04 (reviewed 19 applications);
National Science Foundation scholars grants, dissertation grants; workshops (ongoing)
Reviewer for manuscripts for numerous journals
External reviewer for tenure cases internationally
External reader for dissertations at University of Toronto (2004), Cambridge University (2005-06), Princeton University (2010), UC-San Diego (2014), University of Zürich (2017)

ACADEMIC SERVICE, University of Wisconsin

Department Level:

History:

Graduate Committee (2017-18)

History of Science:

Search Committee, asst. prof., History of Science (2017)

Department Chair (2010-2011, 2000-03)

Director of Graduate Studies (2015-16)

Ad Hoc Review and Restructuring Committee (2014-17)

Chair, Community and Alumni Relations Committee (2013-16, 2017-)

Undergraduate Curriculum Committee (2013-16)

Search Committee, History of modern physical sciences (2013-14)

Search Committee, History of recent biology (2012-13)

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Chair, Graduate admissions and fellowships committee (2005-2010)
Colloquium and Brown Bag Lunch Series Coordinator (2004-05, 2012-13)
Chair, History of Modern Physical Sciences Search Committee (1999-2000)
Chair, Graduate Curriculum Review Committee (Fall 1998)
Committee on the Undergraduate Program in History of Science (1988-89, 1993-)
Undergraduate Chair (1991-July 2000)
Ad hoc Curriculum Planning Committee (Chair)
Honors Coordinator (1991- July 2000)
Committee on Graduate Admissions and Fellowships(1990-92)
Departmental Liaison to Center for Biology Education (1990-)
Gender and Women's Studies Program
Executive Committee (1995-2009)
Program Committee (1988-2009)
Master's Program Committee (including admissions) (2008-09)
Curriculum Committee (1993-94)
Institute for Research in the Humanities
Advisory Committee to the Director (Sr. Fellows), 2014-18
Resident and REI Fellows Selection Committee, 2016-17, 2017-18
Senior Fellows Selection Committee, 2016-17
Kingdon Fellowship Selection Committee, 2015-16
Solmsen Fellowship Selection Committee, 2014-15
Integrated Liberal Studies Program (Executive Committee to 2015)
Chair review committee (2002-03, 2004-5)
Material Culture Studies
Faculty (2013-)

College: Faculty Appeals Committee, Spring 2008-
Philosophy Department Review Committee, Fall 2014
Art History Review Committee, Fall 2005
University:
Committee on Retirement, 2015-18 (chair, 2017-18)
Center for the Humanities Advisory Committee, 2015-18
Committee on Faculty Rights and Responsibilities (2009-12)
System: UW System Women's Studies Consortium Advisory Committee to the Women's
Studies Librarian (1990-92, 1994-2009).

OUTREACH AND INFORMAL TEACHING ACTIVITIES

“For the Birds: The Original Story of Darwin’s Finches” family-friendly activity table, with Irene Toro Martinez and Brita Larson, Darwin Day, Feb. 2015.

“Careers beyond the professoriat: How can professors help?” History of Science Dept. brown bag lunch presentation, 18 October 2013.

“Alternation of generations” family-friendly activity table, with Molly Laas, Irene Toro Martinez, Dan Liu, Melissa Charenko, and Gavin Tullis, Darwin Day, Feb. 2013.

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“Reflections on Professional Meetings,” with Kellen Backer and Eric Schatzberg, History of Science Dept. brown bag lunch presentation, 4 December 2009.

“Science Education in the Wake of Darwin,” Darwin Day outreach exhibit, 8 February 2009

“Kids These Days: Teaching the Millennial Generation,” with Peter Susalla, History of Science Dept. brown bag lunch presentation, 30 November 2007.

“The Evolution of Evolutionary Trees,” Poster co-authored and presented with undergraduates Thom Quinn and Bret Bostwick, Darwin Day, 10 February 2007 (outreach event).

Oct. 8, 2004: “A monstrous course? Teaching *Frankenstein* across disciplines,” presentation with Susan Bernstein for *Frankenstein and the Secrets of Nature* mini-conference, sponsored by UW Center for the Humanities.

Led and coordinated informal interdisciplinary faculty/graduate student reading/discussion group on Stephen Jay Gould’s *Structure of Evolutionary Theory*, Spring semester 2003 (brought together faculty, postdoctoral scholars, and graduate students in history of science, molecular biology, anthropology, and botany)

Guest lecturer, Nov. 2002, Nov. 2001 for ILS 150: “Ways of Knowing.”

Guest lecturer, 28 Oct. 2002, Art History 463/ETD 501/History 500: “Dimensions of Material Culture.”

Co-organizer (with Mark Kenoyer, Anthropology), “Museum Worlds: Past, Present, Future,” Mellon Workshop in the Humanities, sponsored by UW Center for the Humanities, 2001-02. Monthly meetings starting in Sept. 2001; participants include graduate students, undergrads, faculty, community members, and occasional outside speakers.

2001: UW Teaching Academy Summer Institute, June 4-7 2001; team leader for HistSci/ILS 202 revision project.

1999: WS 530 syllabus published in History of Science Society’s *Syllabus Sampler* of courses on women and science

“Teaching History Writing” workshop for Writing Center staff, Dept. of English, Nov. 14 1999. (30 min. presentation plus discussion; one of 2 historian-presenters)

"Eugenics and American Society, 1900-1920," lecture for "Genes and the Social Order," public lecture series sponsored by UW Medical School and Dept. of Philosophy, 6 February 1996

"The Making of Modern Science," radio course, University of the Air, WHA-radio, Feb.-Mar. 1995 (With Eric Schatzberg and Daniel M. Siegel as other scholarly participants; producer/interviewers: Norm Gilliland and Emily Auerbach)

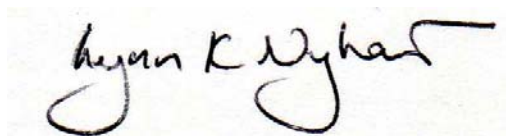
Panelist for discussion on Donna Haraway's Primate Visions, "Engaging the Issues," sponsored

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by UW-Madison Havens Center, 24 February 1992

"Charles Darwin and Darwinism," radio interview, "To the Best of Our Knowledge," WHA-radio, November 1990

"Taking Care of Voltaire, or, the History of Women in Science," talk at University of Wisconsin Center at Richland Center, February 1989.

A handwritten signature in black ink on a light-colored background. The signature reads "Bryan K. Sykes" in a cursive, flowing script. The first letter of "Bryan" is a large, stylized capital 'B'. The signature is centered horizontally within the image.