

SEMINARIO 4. CIENCIA E IMPERIO

Una construcción historiográfica. Imperio y geo-epistemología. La evolución de las ideas. El *translation effect*. De la construcción del imperio a la construcción de la ciencia. Modernidad, ciencia y conocimiento. Hacia un imaginario científico y un imperio invisible: de la historiografía a la cultura visual.

Lectura obligatoria (selección de dos textos a elección)

Del *dossier* para el seminario 4.

Lectura básica

- Canaparo, C. *Ciencia y escritura* (Buenos Aires: Zibaldone, 2003).
- Deleuze, G./Guattari, F. *Qu'est-ce que la Philosophie?* (Paris: Minuit, 1991).
- Jeudy, J-P. *Le désir de catastrophe* (Paris: Aubier, 1990).
- Latour, Bruno. *Petit leçons de sociologie des sciences* (Paris: Seuil, 1997).
- MacLeod, R. 'Nature and Empire: Science and the Colonial Enterprise — Introduction', in *Osiris*, vol. 15, 2000, pp. 1-13.
- Mignolo, Walter. *The Darker Side of the Renaissance: Literacy, Territoriality, and Colonization* (Ann Arbor: University of Michigan Press, 2003).
- . *The Idea of Latin America* (London: Blackwell, 2005).
- Pratt, M. L. *Imperial Eyes: Travel Writing and Transculturation* (London: Routledge, 1992).

Lecturas optativas

- Adas, M. *Machines as the Measures of Men: Science, Technology and Ideologies of Western Dominance* (Ithaca: Cornell University Press, 1989).
- Alam, A. 'Imperialism and Science', in *Social Scientist*, vol. 6, No. 5, December, 1977.
- Andersson, J. S. *How to define 'Performative'* (Stockholm: Libertryck, 1975).
- Arnold, D. (ed.). *Imperial medicine and indigenous societies* (Manchester: Manchester University Press; New York: St. Martin's Press, 1988).
- Arnold, R. *The Problem of Nature: Environment, Culture and European Expansion* (Oxford: Oxford University Press, 1996).
- Austin, J.L. *How to Do Things with Words* (Oxford: Clarendon Press, 1962).
- Baber, Z. *The science of empire: scientific knowledge, civilization, and colonial rule in India* (Albany: State University of New York Press, 1996).
- Babini, J. *La evolución del pensamiento científico en la Argentina* (Buenos Aires: Raigal, 1954).
- Barton, T. *Power and knowledge: astrology, physiognomics, and medicine under the Roman Empire* (Ann Arbor: University of Michigan Press, 1994).
- Basalla, G. 'The Spread of Western Science', in *Science*, vol. 156, 1967, pp. 611-622.
- Bayly, C. A. *Imperial Meridian: The British Empire and the World* (London: Longman, 1989).
- Bell, M., Butlin, R. A., and Heffernan, M. (eds.). *Geography and imperialism, 1820-1940* (Manchester: Manchester University Press, 1995).
- Bhabha, H. K. (ed.). *Nation and Narration* (London: Routledge, 1990).
- . *The location of culture* (London: Routledge, 1994).
- Bonneuil, Ch. 'Development as Experiment: Science and State Building in Late Colonial and Postcolonial Africa, 1930-1970', in *Osiris*, vol. 15, 2000, pp. 258-281.

- Breman, J. (ed.). *Imperial monkey business: Racial supremacy in Social Darwinist theory and colonial practice* (Amsterdam: VU University Press, 1990).
- Burckhardt, J. *The Civilization of the Renaissance* (London: George Allen and Co., 1914).
- Cañizarez-Esguerra, J. *How to Write the History of the New World: Histories, Epistemologies, and Identities in the Eighteenth-Century Atlantic World* (Stanford: Stanford University Press, 2001).
- . ‘Iberian Colonial Science’, in *Isis*, vol. 96, 2005, pp. 64-70.
- Cardoso, F. E./Faletto, E.. *Dependency and development in Latin America* (Berkeley: University of California Press, 1979).
- Chambers, D. W. and Gillespie, R. ‘Locality in the History of Science: Colonial Science, technoscience, and Indigenous Knowledge’, in *Osiris*, vol. 15, 2000, pp. 221-240.
- Cipolla, C. M. *European Culture and Overseas Expansion* (London: Penguin, 1970).
- Clifford, J. *Routes: Travel and Translation in the late Twentieth Century* (Cambridge, Mass.: Harvard University Press, 1997).
- Darwin, Ch. *Voyage of The Beagle* (London: Penguin, 1989).
- Deans-Smith, S. ‘Nature and scientific Knowledge in Spanish Empire Introduction’, in *Colonial Latin America Review*, vol. 15, num. 1, June 2006.
- Deleuze, G./Guattari, F. *Mille Plateaux* (Paris: Minuit, 1980).
- Dodson, M. S. ‘Translating science, translating Empire: the power of language in colonial North India’, in *Comparative studies in society and history*, vol. 47, num. 4, 2005, 809-835.
- Drayton, R. *Nature’s Government: Science, British Imperialism and the Improvement of the World* (New Haven: Yale University Press, 2000).
- Eco, Umberto. *A Theory of Semiotics* (Bloomington: Indiana University Press, 1978).
- . *Signo* (Barcelona: Labor, 1980).
- . *The Sign of Three: Dupin, Holmes, Peirce* (Bloomington: Indiana University Press, 1984).
- Edney, M. H. *Mapping and Empire: The Geographical Construction of British India, 1765-1843* (Chicago: University of Chicago Press, 1997).
- Elena, A. and Ordoñez, J. ‘Science, Technology, and the Spanish Colonial Experience in the Nineteenth Century’, in *Osiris*, vol. 15, 2000, pp. 70-82.
- Elsner, J. and Rubies, J. (eds.). *Voyages and Visions: Towards a Cultural History of Travel* (London: Reaktion, 1998).
- Feingold, M. (ed.). *Jesuit Science and the Republic of Letters* (Cambridge, Mass.: MIT Press, 2003).
- Figueiroa, S. and da Silva, C. ‘Enlightened Mineralogists: Mining Knowledge in Colonial Brazil, 1750-1825’, in *Osiris*, vol. 15, 2000, pp. 174-189.
- Fischer, K. P. *History and Profecy: Oswald Spengler and the Decline of the West* (New York: Peter Lang, 1989).
- Foucault, M. *The Order of Things* (London: Tavistock Publications, 1970).
- Fulford, T. and Kitson, P. J. (eds.). *Travels, Explorations and Empires: Writings from the Era of Imperial Expansion 1770-1835* (London: Pickering and Chatto, 2001-2002).
- Galeano, E. *Open Veins of Latin America* (London: Monthly Review Press, 1973).
- Galera Gómez, A. *La ilustración española y el conocimiento del nuevo mundo: las ciencias naturales en la expedición Malaspina, 1789-1794* (Madrid: CSIC, 1988).
- Galison, P./Thompson, E. (eds.). *The Architecture of Science* (Cambridge, Mass.: MIT Press, 1999).
- Gascoigne J. ‘The Royal Society and the emergence of science as an instrument of state policy’, in *British Journal for the History of Science*, vol. 32, 1999, pp. 171-184.
- Gascoigne, J. *Science in the Service of Empire (1998). Joseph Banks, the British state and the uses of science in the age of revolution* (Cambridge: Cambridge University Press, 1998).
- Godlewska, A. and Smith, N. (eds.) *Geography and Empire* (Oxford: Blackwell, 1994).
- Gorra, M. *After Empire. Scott, Naipul, Rushdie* (Chicago: Chicago University Press, 1997).
- Greene, J. C. *Darwin and the modern world view* (Baton Rouge: Louisiana State University Press, 1961).
- Gregory, D. *Geographical imaginations* (Oxford: Oxford University Press, 1994).
- Hall, Catherine. *Cultures of Empire: A Reader — Colonisers in Britain and the Empire of the Nineteenth and Twentieth Centuries* (Manchester: Manchester University Press, 2000).

- Harding, S. *Is Science Multicultural? Postcolonialisms, Feminisms, and Epistemologies* (Bloomington and Indianapolis: Indiana University Press, 1998).
- Hardt, M./Negri, T. *Empire* (Cambridge, Mass.: Harvard University Press, 2000).
- Harris, S. J. 'Long-Distance Corporations, Big Sciences, and the Geography of Knowledge', in *Configurations*, vol. 6, 1998, pp. 269-304.
- . 'Mapping Jesuit Science: The Role of Travel in the Geography of Knowledge', in O'Malley, J. *et al.* (eds.), *The Jesuits: Cultures, Sciences, and the Arts, 1540-1773* (Toronto: Toronto University Press, 1999), pp. 216-222.
- . 'Jesuit Scientific Activity in the Overseas Missions, 1540-1773', in *Isis*, vol. 96, 2005, pp. 71-79.
- Harrison, M. 'Science and the British Empire', in *Isis*, vol. 96, 2005, pp. 56-63.
- . *The tools of empire: Technology and European imperialism in the 19th century* (New York: Oxford University Press, 1981).
- Headrick D. R. *The Tentacles of progress; Technology Transfer in the Age of Imperialism* (New York: Oxford University Press, 1988).
- Hefferman, M. J. 'A State Scholarship: The Political geography of French International Science during the Nineteenth Century', in *Transactions of the Institute of British Geographers*, vol. 19, 1994, pp. 21-45.
- Hobsbawm, E. J. *The age of empire, 1875-1914* (New York: Pantheon Books, 1987).
- Humboldt, A. *Personal Narrative* (London: Penguin, 1995).
- Hunt B. J. *Doing Science in a Global Empire: Cable telegraphy and electrical physics in Victorian Britain* (Chicago: University of Chicago Press, 1997).
- Huntington, S. P. *The Clash of Civilizations: And the Remaking of World Order* (New York: Free Press, 2002).
- Jardine N., Secord, J. A. and Spary E. C. *Cultures of natural history* (Cambridge: Cambridge University Press, 1996).
- Jassanoff, S. 'Biotechnology and Empire: The Global Power of Seeds and Science', in *Osiris*, vol. 21, 2006, pp. 273-292.
- Kant, I. *Universal natural history and theory of the heavens* (Edinburgh: Scottish Academic Press, 1981).
- Kumar, D. *Science and Empire: Essays in Indian context, 1700-1947* (Delhi: Anamika Prakashan, 1991).
- Lafuente, A. 'Enlightenment in an Imperial Context: Local Science in the Late-Eighteenth-Century Hispanic World', in *Osiris*, vol. 15, 2000, pp. 17-30.
- Latour, B. *Science in Action* (Cambridge: Harvard University Press, 1987).
- Latour, B./Weibel, P (eds.). *Making Things Public. Atmosphere of Democracy* (Cambridge, Mass.: ZKM/MIT Press, 2005).
- Latour, B./Woolgar, S. *Laboratory Life* (Milton Keynes: Open University, 1979).
- Lebeau, A. *L'engrenage de la technique - Essai sur une menace planétaire* (Paris: Gallimard, 2005).
- Livingstone, D. N. *Putting Science in its Place. Geographies of Scientific Knowledge* (Chicago: Chicago University Press, 2003).
- Lopes, M. M. and Podgorny, I. 'The Shaping of Latin American Museums of Natural History, 1850-1990', in *Osiris*, vol. 15, 2000, pp. 108-118.
- Liotard, J-F. *The Differend: Phrases in Dispute* (Minneapolis; University of Minnesota Press, 1988).
- Mackay, D. *In the wake of Cook: Exploration, science, and empire, 1780-1801* (London : Croom Helm, 1985).
- MacKenzie J. M. (ed.). *Imperialism and the natural world* (Manchester: Manchester University Press, 1990).
- . *The Empire of Nature: Hunting, Conservation and British Imperialism* (Manchester: Manchester University Press, 1998).
- MacLeod, R. 'Passages in Imperial Science: From Empire to Commonwealth', in *Journal of World History*, vol. 4, 1993, pp. 117-150.

- . ‘On Visiting “Moving Metropolis”: Reflections on the Architecture of Imperial Science’, in Reingold, N. and Rothenberg, M. (eds.), *Scientific Colonialism: A Cross Cultural Comparison* (Washington: Smithsonian Institution Press, 1987).
- Mandelsohn, K. *Science and Western Domination* (London: Thames and Hudson, 1976).
- Marsden, B. *Engineering an Empire: Technology, Science and Culture, 1760-1914* (Basingstoke: Palgrave Macmillan, 2003).
- McClellan, J. E. and Regourd, F. ‘The Colonial Machine: French Science and Colonization in the Ancien Regime’, in *Osiris*, vol. 15, 2000, pp. 31-50.
- Merson, J. ‘Bio-prospecting or Bio-Piracy: Intellectual property Rights and Biodiversity in a Colonial and Postcolonial Context’, in *Osiris*, vol. 15, 2000, pp. 282-296.
- Mignolo, W. D. *Local Histories/Global Designs* (Princeton: Princeton University Press, 2000).
- Mignolo, W./Schiwy, F. ‘Double Translation’, in Maranaho, T./Strek, B., eds. *Translation and Ethnography. The Anthropological Challenge or Intercultural Understanding* (Tucson: University of Arizona Press, 2003), pp. 3-29.
- Miller, D. Ph. and Reill, P. H. (eds.). *Visions of empire: Voyages, botany, and representations of nature* (Cambridge: Cambridge University Press in association with the UCLA Center for Seventeenth- and Eighteenth-Century Studies and the William Andrews Clark Memorial Library, 1996).
- Minguet, Ch. *Alexandre de Humboldt: historien et géographe de l'Amérique* (Paris: Maspero, 1969).
- Mitchell, W. J. T. *The Language of Images* (Chicago: Chicago University Press, 1980).
- . *Picture Theory: Essays on Verbal and Visual Representation* (Chicago: Chicago University Press, 1994).
- Montgomery, S. L. *Science in Translation* (Chicago: Chicago University Press, 2000).
- Needham, J. *Science and Civilization in China* (Cambridge: Cambridge University Press, 1954-1986). 6 volumes.
- Nickles, Thomas. ‘Philosophy of Science and History of Science’, in *Osiris*, 10 (1995): 138-163.
- Nieto Olarte, M. *Remedios para el imperio: Historia natural y la apropiación del Nuevo Mundo* (Bogotá: Instituto Colombiano de Antropología e Historia, 2000).
- Ortiz, E. ‘A Convergence of Interests: Einstein Visit to Argentina in 1925’, in *Ibero-Amerikanisches Archiv*, volumen 21, números 1-2, 1995, pp. 67-126.
- . ‘Army and Science in Argentina: 1850-1950’, in Forman, P./Sánchez Ron, J. M. (eds.), *National Military Establishments and the Advancement of Science and Technology* (Dordrecht: Kluwer, 1996), pp. 153-184.
- . ‘The Transmission of Science from Europe to Argentina and its Impact on Literature: from Lugones to Borges’, in Fishburn, E. (ed.), *Borges and Europe Revisited* (London: ILAS, 1998), pp. 108-123.
- . ‘Científicos y Ciencia en la Argentina de 1860: El affaire Santiago Cáceres’, in *Boletín de la BCN*, Buenos Aires, número 122, 2005, pp. 41-64.
- Ortiz, E./Rubinstein, H. ‘Impacto de los países escandinavos en el desarrollo de la física en la Argentina: 1960-2000’, in *Ciencia Hoy*, Buenos Aires, volumen 15, número 18, 2005, pp. 38-45.
- Osborne, M. A. ‘Acclimatizing the World: A History of the Paradigmatic Colonial Science’, in *Osiris*, vol. 15, 2000, pp. 135-151.
- . ‘Science and the French Empire’, in *Isis*, vol. 96, 2005, pp. 80-87.
- Palladino, P. and Worboys, M. ‘Science and Imperialism’, in *Isis*, vol. 84, 1993, pp. 91-102.
- Parker, A./ Kosofsky Sedgwick, E. (eds.). *Performativity and Performance* (London: Routledge, 1995).
- Petitjean, P./ Jami, C. / Moulin, A-M. (eds.). *Science and empires: Historical studies about scientific development and European expansion* (Dordrecht: Kluwer Academic, 1992).
- Pimentel, J. *La física de la monarquía: Ciencia y política en el pensamiento colonial de Alejandro Malaspina (1754-1810)* (Madrid: Doce Calles, 1998).
- . ‘The Iberian Vision: Science and Empire in the Framework of a Universal Monarchy, 1500-1800’, in *Osiris*, vol. 15, 2000, pp. 17-30.

- Polanco, X. *Naissance et développement de la science-monde: Production et reproduction des communautés scientifiques en Europe et en Amérique Latine* (Paris: La Découverte, 1990).
- Pruna, P. M. 'National Science in a Colonial Context: The Royal Academy of Sciences in Havana, 1861-1898', in *Isis*, vol. 85, 1994, pp. 412-426.
- Pyenson, L. *Cultural Imperialism and Exact Sciences: German Expansion Overseas 1900-1930* (New York: Peter Lang, 1985).
- . 'Pure Learning and Political Economy: Science and European Expansion in the Age of Imperialism', in Visser, R. P. W. *et al.* (eds.), *New Trends in the History of Science* (Amsterdam; Rodopi, 1989).
- . 'Cultural Imperialism and Exact Sciences revisited'. In *Isis*, vol. 84, 1993, pp. 10-108.
- Raj, K. 'Colonial Encounters and the Forging of New Knowledge and National Identities: Great Britain and India, 1760-1850', in *Osiris*, vol. 15, 2000, pp. 119-134.
- Reingold, N. and Rothenberg, M. (eds.). *Scientific Colonialism: A Cross Cultural Comparison* (Washington: Prentice Hall and IBD, 1987).
- Riffenburgh, B. *The Myth of the Explorer: The Press Sensationalism and Geographical Discovery* (Oxford: Oxford University Press, 1994).
- Rozak, Th. *Where the Waste Land Ends* (Garden City: Anchor Books, 1972).
- Ryan, J. R. *Picturing empire: Photography and the visualization of the British Empire* (London: Reaktion Books, 1997).
- Said, E. W. *The World, the Text and the Critic* (London: Faber and Faber, 1984).
- . *Culture and Imperialism* (New York: Knopff, 1993).
- . *Orientalism* (London: Penguin, 1995).
- Schiebinger, L. 'Forum Introduction: The European Colonial Science Complex', in *Isis*, vol. 96, 2005, pp. 52-55.
- Schiebinger, L. and Swan, C. (eds.) *Colonial Botany: Science, Commerce and Politics in the Early Modern World* (Philadelphia: University of Pennsylvania Press, 2004).
- Searle, J. R. 'How performatives work', in *Linguistics and Philosophy* 12, 1989, pp. 535-558.
- Semonin, P. 'Empire and extinction: The dinosaur as a metaphor for dominance in prehistoric nature', in: *Leonardo: International Journal of the Contemporary Artist*, 30 (1997): 171-182.
- Sheets-Pyenson, S. *Cathedrals of Science: The Development of Colonial natural History Museums During the Late Nineteenth Century* (Kingston: McGill-Queen's University Press, 1988).
- Shils, E. 'Centre and Periphery', in Polanyi, M. (ed.). *The Logic of Personal Knowledge* (London: Routledge and Keegan Paul, 1961).
- Simpson, Ch. (ed.). *Universities and empire: Money and politics in the social sciences during the Cold War* (New York: The New Press, 1998).
- Smith, M. R. and Marx, L. (eds.). *Does technology drive history? The dilemma of technological determinism* (Cambridge, Mass.: MIT Press, 1994).
- Snow, C. P. *The two cultures and the scientific revolution* (Cambridge: Cambridge University Press, 1959).
- . *The two cultures; and, A second look : an expanded version of 'The two cultures and the scientific revolution'* (Cambridge: Cambridge University Press, 1964).
- Sorlin, S. 'Ordering the World for Europe: Science as Intelligence and Information as Seen from the Northern Periphery', in *Osiris*, vol. 15, 2000, pp. 51-69.
- Spengler, O. *The Decline of the West. Form and Actuality* (London: George Allen and Unwin, 1926).
- . *The Decline of the West. Perspectives and World History* (London: George Allen and Unwin, 1928).
- Steiner, G. *In Bluebeard's castle: some notes towards the re-definition of culture* (London: Faber and Faber, 1971).
- Verón, E. *La semiosis social* (Barcelona: Gedisa, 1987).
- Virilio, P. *L'horizon négatif* (Paris: Galilée, 1984).
- . *La machine de vision* (Paris: Galilée, 1988).
- Wallerstein, I. *The Modern World System: Capitalist Agriculture and the Origins of the European World Economy in the Sixteenth Century* (New York: Academic Press, 1974).

- Weber, M. *Economy and Society* (London: Bedminster Press, 1968).
- Willis, C. (ed.). *Building the Empire State* (New York: Norton, in association with the Skyscraper Museum, 1998).
- Worboys, M. 'The Colonial World as Mission and Mandate: Leprosy and Empire, 1900-1940', in *Osiris*, vol. 15, 2000, pp. 207-218.
- Young, R. M. *Darwin's metaphor: nature's place in Victorian culture* (Cambridge; Cambridge University Press, 1985).
- Zeller, S. 'The Colonial World as Geological Metaphor: Strata(gems) of Empire in Victorian Canada', in *Osiris*, vol. 15, 2000, pp. 85-107.
- Ziólkowski, M. S. and Sadowski, R. M. (eds.). *Time and calendars in the Inca Empire* (Oxford : B.A.R, 1989).
- Zizek, S/Daly, G. *Conversations with Zizek* (London: Polity, 2004).