

Fall 2018: *STS 250/21A.859*  
 E-53-354, Thursdays 9:30-12:45 pm.  
 Instructor: Michael MJ Fischer

## Social Theory

6 Sept 2018

1. Introduction: *MIT Laboratory for New Ethnographic Methods, Contemporary Social Theory & Emergent Forms of Life* (Ethnography, Theory, Life, ETL)

themes: social theory, structural change (what's changed today?),  
 STS (what's the role of the sciences and technologies in social formations?)  
 ethnography, empirical cases, 'ground-truthing', rebuilding social theory  
 media, the materialities and circuitry of communicative structures

*paradigms, epistemes, thought collectives, ideologies, [Gestalt]*

paradigms (Kuhn) – grammars of scientific world views,  
 e.g. Ptolemaic vs Copernican, classical vs quantum physics  
 epistemes (Foucault) - the assumptions and exclusions that allow things to be  
 said, seen, or thought, and evaluated as within a regime of truth  
 heterotopias (Foucault, medicine) - tissue or genetic material apart from its  
 normal location, which can be productive or just isolated  
 thought collectives (Fleck) – overlapping historical epistemes that allow a  
 new consensus to emerge  
 ideologies (Marx, Weber) – material and ideal interests held by identifiable  
 groups that provide directives for policy making, legitimations, or  
 criticisms of social and political arrangements of a state or political  
 community  
 Gestalt (Berlin experimental psychology: Kurt Koffka, Max Wertheimer,  
 Wolfgang Köhler) - configurations, patterns, self-organized fields of  
 perception and the brain-mind's ability to recognize or perceive these  
 in a world of ambiguity, chaotic fragments, or overload of possible  
 information; "the whole is something *other than* [something different from,  
 independent of] the sum of its parts"  
 language limits (Warren Sack)  
 achievement-oriented ethos v foundational knowledge practices (J. Whittington)  
 governor platforms (Kate Klonick)

### Readings

Foucault, Michel. 1966 [1971]. "Las Meninas" in *The Order of Things: An Archeology of the Human Sciences*. Pantheon. [Gestalt, paradigm switch]

Fischer, MMJ. 2003. "Las Meninas & Virtual Robotic-Surgical Systems" in *Emergent Forms of Life & the Anthropological Voice*, pp. 309-28.

a parallel brilliant analysis of a visual on the cusp of change in systems of justice:  
 Manderson, Desmond. 2018 "Blindness Visible: Law, Time, and Bruegel's  
 Justice." in Manderson, ed., *Law and the Visual: Reperesentations, Technologies, and Critique*. Toronto.

Film: Amir, Sulfikar. 2017. *Healing Fukushima*.  
 Trimpop, Thorsten. 2017. *Furusatu*.

Dumit, Joe. 2014. "Writing the Implosion: Teaching the World One Thing at a Time."  
*Cultural Anthropology* 29, no. 2 (2014): 344–362.  
<https://culanth.org/articles/741-writing-the-implosion-teaching-the-world-one>

Pang Eng Fong. 2013. *(Almost) Uniquely Singapore: 18 Objects*. Singapore: SMU & Select Publishing. (Sound Blaster, Thumbdrive, SAR-21, Glofish, In-Vehicle Unit, NEWater, Tiger Balm)

Sack, Warren. 2017. "Out of Bounds: Language Limits, Language Planning, and the Definition of Distance in the New Spaces of Linguistic Capitalism." *Computational Culture*, 5(4)

Jones, Victoria E. "Michel Foucault's Six Principles of Heterotopias"  
<https://www.youtube.com/watch?v=qFczzoPbjis>

Fischer, MMJ.

2018. "Prologue: Changing Modes of Ethnographic Authority." and

2018. "Experimental Ethnography in Ink, Light, Sound, and Performance."  
in *Anthropology in the Meantime: Experimental Ethnography, Theory, and Method for the Twenty-first Century*. Duke.

2009. "Culture and Cultural Analysis as Experimental Systems." and

2009. "Four Cultural Genealogies for a Recombinant Anthropology of Science and Technology." in *Anthropological Futures*. Duke.

12 Sept. Wednesday, 4:30 Special HASTS Colloquium: Internet Governance  
with Siva Vidhyanathan, Joan Donovan, David Edelman, Daniel Weitzner

13 Sept 2018

2. Contemporary Issues in Social Theory: Computational Culture and Democracy

\* = required. (\*) = important background

Kelty, Christopher.

\*2017. "Too Much Democracy in All the Wrong Places: Towards a Grammar of Participation." *Current Anthropology*, 58 suppl. 15.

2008. *Two Bits: The Cultural Significance of Free Software*. Duke.

\*Vaidhyanathan, Siva. 2018. *Antisocial Media: How Facebook Disconnects Us and Undermines Democracy*. Oxford UP

Donovan, Joan.

\*2018. "Toward a Militant Ethnography of Infrastructure: Cybercartographies of Order, Scale and Scope across the Occupy Movement." *Journal of Contemporary Ethnography*. pp 1-28.

2015. *Technologies of Social Change: Mapping the Infrastructure of the Occupy Movement from #Occupy WallStreet to #OccupySandy*. PhD., UCSD.

\*Klonick, Kate. 2018. "The New Governors: The People, Rules, and Processes Governing On Line Speech." *Harvard Law Review*. 131:

Tufekci, Zeynep. 2017. *Twitter and Tear Gas: the Power and Fragility of Networked Protest*. Yale UP

Tufekci, Zeynep. "We Are Building a Dystopia Just to Make People Click on Ads" TED talk.

[https://www.ted.com/talks/zeynep\\_tufekci\\_we\\_re\\_building\\_a\\_dystopia\\_just\\_to\\_make\\_people\\_click\\_on\\_ads](https://www.ted.com/talks/zeynep_tufekci_we_re_building_a_dystopia_just_to_make_people_click_on_ads)

Coleman, E. Gabriella and Christopher M. Kelty, ed.s. LIMN, no. 8: *Hacks, Leaks, and Breaches*. <https://limn.it/issues/hacks-leaks-and-breaches/>

\*Marres, Noortje. 2018. "Why We Can't Have Our Facts Back." *Engaging Science, Technology & Society* 4: 423-443

Zittrain, Jonathan. 2014. "Facebook could decide an election without anyone ever finding out." *The New Republic*. <https://newrepublic.com/article/117878/information->

## fiduciary-solution-facebook-digital-gerrymandering

## Data &amp; Society reports.

- Caplan, Robyn, Lauren Hanson, and Joan Donovan. 2018 Feb. "Dead Reckoning: Navigating Content Navigation after 'Fake News'". Data and Society. 38pp.
- Caplan, Robyn, Lauren Hanson, Joan Donovan, and Jeanna Mathews. "Algorithmic Accountability: A Primer." 12pp.
- Phillips, Whitney. 2018. The Oxygen of Amplification: Better Practices for Reporting on Extremists, Antagonists, and Manipulators on Line. Data and Society. 25pp.
- Tripodi, Francesca. 2018. "Searching for Alternative Facts: Analyzing Scriptural Interference in Conservative News Practices. Data & Society, 64pp.

## Further Readings:

- Collier, Steven J., James Christopher Mizes, and Antina von Schnitzler, eds. 2016. LIMN, no. 7: *Public Infrastructure/ Infrastructure's Public*. <https://limn.it/issues/public-infrastructure/infrastructural-publics/>
- (\*) Habermas, Jürgen. 1962/1989. *The Structural Transformation of the Public Sphere*.
- (\*) Lyotard, Jean-Francois. 1979. *The Postmodern Condition: A Report on Knowledge*.

MN

- cometary: Readings, Bill. 1991. *Introducing Lyotard: Art & Politics*. Routledge
- (\*) Deleuze, Gilles. 1990 [1992] "Postscript on the Societies of Control."
- (\*) Fischer, MMJ. 1999. "Worlding Cyberspace: Towards an Ethnography in Time, Space and Theory" In G. Marcus, ed. *Critical Anthropology Now*. SAR.
- Wajcman, Judy and Nigel Dodd, eds., 2017. *The Sociology of Speed*. OUP.
- MacKenzie, Donald "Capital's Geodesic: Chicago, New Jersey, and the Material Sociology of Speed"
- Sharma, Sarah. "Speed Trap and the Temporal: Of Taxis, Truck Stops, and Task Rabbits"
- Howard, Philip N. 2018. "Algorithms, bots, and political communication in the US 2016 election: The challenge of automated political communication for election law and administration" *J. of Information Technology & Politics*, 15(2):81-93.

## In the news:

- Carter, Ashton. 2018. "Shaping Disruptive Technological Change for Public Good." Ernest May Lecture (Aspen Strategy Group meeting Aug. 2018). [https://www.belfercenter.org/publication/shaping-disruptive-technological-change-public-good?utm\\_source=SilverpopMailing&utm\\_medium=email&utm\\_campaign=TAPP\\_Ash%20Carter\\_Shaping%20Disruptive%20Technological%20Change%20for%20Public%20Good%20\(1\)&utm\\_content=&spMailingID=20227006&spUserID=MzA1MzA1NTg5ODMyS0&spJobID=1340856526&spReportId=MTM0MDg1NjUyNgS2](https://www.belfercenter.org/publication/shaping-disruptive-technological-change-public-good?utm_source=SilverpopMailing&utm_medium=email&utm_campaign=TAPP_Ash%20Carter_Shaping%20Disruptive%20Technological%20Change%20for%20Public%20Good%20(1)&utm_content=&spMailingID=20227006&spUserID=MzA1MzA1NTg5ODMyS0&spJobID=1340856526&spReportId=MTM0MDg1NjUyNgS2)
- abbrev vers in Wired, "Why Big Tech & the Government Need to Work Together." <https://www.wired.com/story/why-big-tech-and-the-government-need-to-work-together/>
- Fisher, Max & Katherine Benhold. 2018. "Germans, Seeking News, Find YouTube's Far-Right Tirades." NYT, Sept 8, p. A4.
- Taylor, David. 2018. "'Big tech's double trouble: political heat from Trump and the left may signal reckoning ahead" The Guardian, 3 Sept.

## 3. Design (Infrastructure v Social) and Multispecies Interfaces

- \*Parrenas, Juno Salazar. 2018. *Decolonizing Extinction: The Work of Care in Orangutan Rehabilitation*. Duke. [at least Intro & ch. 1]
- ["interview" on documenta 14 radio YNK#17 [https://www.mixcloud.com/Islands\\_Songs/ynk-12\\_-june-29th--blasted-landscapes-abundant-futures-3\\_-with-juno-salazar-parre%C3%B1as/](https://www.mixcloud.com/Islands_Songs/ynk-12_-june-29th--blasted-landscapes-abundant-futures-3_-with-juno-salazar-parre%C3%B1as/)]
- Haraway, Donna.

(\*1990. *Primate Visions: Gender, Race and Nature in the World of Modern Science*. Routledge

(1984-85) "Teddy Bear Patriarchy: Taxidermy in the Garden of Eden." *Social Text*, 11: 20-64.

\*2003. *The Companion Species Manifesto*. Prickly Paradigm.

2010. "When Species Meet: Staying with the Trouble." *Environment and Planning D: Society and Space*, 28(1):53-55.

2018 "Making Kin in the Chthulucene: Reproducing Multispecies Justice" in A. E. Clarke and Donna Haraway, eds. *Making Kin not Population*. Prickly Paradigm Press.

\*Dave, Naisargi N. 2017. "Witness" in Joao Biehl and Peter Locke, ed.s. *Unfinished: The Anthropology of Belonging*. Duke.

Jain, S. Lochlann. 2006. *Injury: The Politics of Product Design and Safety Law in the United States*. Princeton.

\*Jasanoff, Sheila. 2005. *Designs on Nature: Science and Democracy in Europe and the United States*. Princeton. ch. 1-2.

biodiversity, multi-species, intersecting economies (Southeast Asia)

Lowe, Lisa. 2006. *Wild Profusion: Biodiversity Conservation in an Indonesian Archipelago*. Princeton

Morand, Serge, et al., eds. 2018. *Biodiversity Conservation in Southeast Asia*. Routledge.

Sodhi, Navjot S., Greg Acciaioli, et al. 2007. *Biodiversity and Human Livelihoods in Protected Areas: Case Studies from the Malay Archipelago*. Cambridge.

design of habitats/political economy (Latin America)

de la Cadena, Marisol. 2015. *Earth Beings: Ecologies of Practice Across Andean Worlds*. Duke film: Vilchez, Hernan (director). Huicholes: Los Ultimos Guardianes del Peyote / The Last Peyote Guardians. (Kabopro Films, 2014)

<https://vimeo.com/ondemand/huicholesfilm>

Escobar, Arturo. 2018. *Designs for the Pluriverse: Radical Interdependence, Autonomy, and the Making of Worlds*. Duke.

Raffles, Hugh. 2002. *In Amazonia: A natural history*. Princeton.

design in corporations and product engineering

Cefkin, Melissa, ed. *Ethnography and the Corporate Encounter: Reflections on Research in and of Corporations*. Berghahn.

Clarke, Alison. 2017. *Design Anthropology: Object Cultures in Transition*. Bloomsbury.

Gunn, Wendy. 2013. *Design Anthropology: Theory and Practice*. Bloomsbury.

Smith, Rachel Charlotte. 2016. *Design Anthropological Futures*. Bloomsbury.

Suchman, Lucy. 2006. *Human-Machine Reconfigurations: Plans and Situated Actions*. CUP

design in infrastructure

Anand, Nikhil, Akhil Gupta, and Hannah Appel, ed.s 2018. *The Promise of Infrastructure*. SAR/Duke UP.

Anand, Nikil. 2017. *Hydraulic City: Water and the Infrastructures of Citizenship in Mumbai*. Duke UP.

Biggs, David A. 2012. *Quagmire: Nation-Building and Nature in the Mekong Delta*.

Carse, Ashley. 2014. *Beyond the Big Ditch: Politics, Ecology and Infrastructure*. MIT

Clancey, Greg. *Gropius and His Carpenter*. ms

Saraiva, Taigo. 2016. *Fascist Pigs: Technoscientific Organisms and the History of Fascism*.

MIT. (paperback 2018).

Starosielski, Nicole. 2015. *The Undersea Network (Sign, Storage, Transmission)*. Duke UP

Whittington, Jerome. 2018. *Anthropogenic Rivers: The Production of Uncertainty in Lao Hydropower*. Cornell.

older approaches

Appadurai, Arjun, ed., 1986. *The Social Life of Things: Commodities in Cultural Perspective*. CUP.

Papanek, V. 1971. *Design for the Real World: Human Ecology and Social Change*. Pantheon

#### 4. Malthus, Marx, and Biocapitalism

+Dumit, Joseph. 2012b. "Prescription Maximization and the Accumulation of Surplus Health in the Pharmaceutical Industry: The\_BioMarx\_Experiment." in K. Sunder Rajan, ed. *Lively Capital: Biotechnologies, Ethics and Governance in Global Markets*, Duke.

Fortun, Mike. 2008. *Promising Genomics: Iceland & DeCode Genetics in a World of Speculation*.

+Özden-Schilling, Canay. 2018. "Why the Lights Went Out in Puerto Rico." Public Books. <http://www.publicbooks.org/author/canay-ozden-schilling/>

\*Malthus, Thomas. *An Essay on the Principle of Population* editions 2-6.

[2<sup>nd</sup> edition on, Malthus presents an early version of the demographic transition model, counter to his 1<sup>st</sup> ed. of population outrunning food]

Keyfitz, Nathan. 1983. "The Evolution of Malthus' Thought: Malthus as a Demographer." in Dupaquier, Jacques, A Fauve-Chamoux, and E. Grebenik, eds. 1983. *Malthus Past and Present*. Academic Press,

\*Marx, Karl. *Capital*, v 1: 71-73 (commodity fetishism), 371-429 (machines vs tools), 713-74 (primitive accumulation)

+Marx, Karl -*Grundrisse* - Intro 83-111; social relations & exchange value 136-67; circulation & value 186-203; accumulation & social relations 221-38; simple exchange 240-73; exchange of labor 274-75; labor as objectified value 304-310; [precapitalist economic formations 469-514].

\*Marx, K. - *The 18th Brumaire of Louis Napoleon*

[revolution in reverse, revolution as confirmation of change in relations of production; metaphor and action]

Brinton, Crane. 1938. *The Anatomy of Revolution*. Norton.

[comparative phases of 4 democratic revolutions]

Fischer, MMJ. 1980. *Iran: From Religious Dispute to Revolution*. Harvard.

Robin, C. 2011. "The War on Tax" *LRB* 25 Aug. [compare]

times out of joint, reversal of social process

Negri, Antonio. 2007. *Political Descartes: Reason, Ideology and the Bourgeois Project*. Verso

Yuk Hui. "On Automation and Free Time." <http://www.e-flux.com/architecture/superhumanity/179224/on-autonotation-and-free-time>

Davis, Mike. 2018. *Old Gods, New Enigmas: Marx's Lost Theory*. Verso.

Amrith, Sunil S. 2013 *Crossing the Bay of Bengal*. Harvard. pp 109-115 and passim on the "primitive accumulation" processes in south India and labor mobility

Biehl, Joao and Adriana Petryna. 2011. "The Judicialization of Biopolitics: Claiming the Right to Pharmaceuticals in Brazilian Courts." *American Ethnologist* 40(3) 419-36.

Cooper, Melinda & Catherine Waldby. 2014. *Clinical Labor: Tissue Donors and Research Subjects in the Global Bioeconomy*. Duke

Dumit, Joseph. 2012. *Drugs for Life: How Pharmaceutical Companies Define Our Health*. Duke

Dumit, Joseph. 2012. "Prescription Maximization and the Accumulation of Surplus Health in the Pharmaceutical Industry: The\_BioMarx\_Experiment." in K. Sunder Rajan, ed. *Lively Capital: Biotechnologies, Ethics and Governance in Global Markets*. Duke.

Sunder Rajan, K. 2006. *Biocapital: The Constitution of Postgenomic Life*. Duke.

- Sunder Rajan, Kaushik. 2007. "Experimental Values – Indian Clinical Trials and Surplus Health." *New Left Review*
- Wahlberg, Ayo. 2018. *Good Quality: The Routinization of Sperm Banking in China*. California.
- Walley, Christine. 2013. *Exit Zero: Family and Class in Postindustrial Chicago*. (Chicago)

## 5. Weber, Neoliberalism, Biopolitics, and the New Spirit of Capitalism

- \*Weber, Max. *The Protestant Ethic and the Spirit of Capitalism*
- \*Boltanski, Luc and Eve Chiapello. 2017. *The New Spirit of Capitalism*. Verso.  
read: "General Introduction", and skim Ch. 1.
- Scheffler, Robin Wolfe. Ch. 3 "We Cannot Await Full Understanding of the Nature of Cancer" *A Contagious Case: The Search for Cancer Viruses and the Growth of American Biomedicine*. (Chicago).
- Zhang, Li. 2017 "The Rise of Therapeutic Governing in Postsocialist China." *Medical Anthropology* 36(1):6-18 [esp. in the police and military]
- Yang, Jie. 2015. *Unknotting the Heart: Unemployment and Therapeutic Governance in China*. (Cornell)
- +Foucault, Michel. 1978-79. *The Birth of Biopolitics*. ET (Picador 2008):  
-German neo-liberalism (or Ordo-Liberalism) pp 75-212;  
+-American neo-liberalism (pp. 213-289)
- ""Becker on Ewald on Foucault on Becker": American Neoliberalism and Michel Foucault's 1979 'Birth of Biopolitics' Lectures"  
Sept. 5, 2012., U of Chicago Inst for Law & Economics Olin Res. Paper No. 614, U of C. Public Law Working Paper #401  
[http://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=2142163&download=yes](http://papers.ssrn.com/sol3/papers.cfm?abstract_id=2142163&download=yes)
- Deleuze, Gilles. 1990 [1992] "Postscript on the Societies of Control."
- Keshavjee, Salman. 2014. *Blind Spot: How Neoliberalism Infiltrated Global Health*. Cal. esp. ch.s 6-8
- Hien, Josef. 2018. "Ordoliberalism and the Quest for Sacrality." in J. Hein & Chr. Joerges, eds., *Ordoliberalism, Law and the Rule of Economics*. Hart.
- Woodruff, David M. 2018. "Ordoliberalism, Polanyi, and the Theodicy of Markets." in Hein & Joerges, eds., *Ordoliberalism, Law, and the Rule of Economics*. Hart.
- Springer, Simon, Kean Birch and Julie MacLeavy, eds., 2016. *The Handbook of Neoliberalism*. Routledge.
- Zamora, Daniel & Michael C. Behrent, eds., 2016. *Foucault & Neoliberalism*. Polity
- \*Beck, Ulrich. 1986 [1992]. *Risk Society: Towards a New Modernity*. Sage.  
[reflexive social institutions; non-actuarial risk; shifting the  
ch. 1-2. burdens of risk onto individuals]
- Ewald, Francois Robert. 1991. 'Insurance and Risk', in Graham Burchell, Colin Gordon & Peter Miller, eds., *The Foucault Effect*, Chicago
- Ewald, Francois. 2002 "The Return of Descartes' Malicious Demon: An Outline of a Philosophy of Precaution." in Baker, Tom and Jonathan Simon, ed., *Embracing Risk: The Changing Culture of Insurance and Responsibility*. Chicago  
<http://ccct.uchicago.edu/media/files/writings-on-risk-and-the-provident-state/Ewald%20-%20Embracing%20Risk%20-%20Return%20of%20Descarte%27s%20Malicious%20Demo>
- Funtowicz, S. O. and J.R. Ravetz. 1992. "Three Types of Risk Assessment and the Emergence of Post-Normal Science." in S. Krimsky and D. Golding, eds., *Social Theories of Risk*. Praeger.

- Gibbons, Michael, Camille Limoges, Helga Nowotny, Simon Schwartzman, Peter Scott, and Martin Trow. 1994. *The New Production of Knowledge: The Dynamics of Science and research in Contemporary Societies*. Sage [mode 2 knowledge]
- +Perrow, Charles. 1999 (2<sup>nd</sup> ed.) *Normal Accidents: Living with High Risk Technologies* read: New Afterword. Princeton. [tight vs loose coupling]
- Biehl, Joao. 2003. "The Judicialization of Biopolitics: Claiming the Right to Pharmaceuticals in Brazilian Courts." *American Ethnologist* 40(3): 419-36.
- Cooper, Melissa and Catherine Waldby. 2014. *Clinical Labor: Tissue Donors and Research Subjects in the Global Bioeconomy*. Duke.
- Geertz, Clifford. "Deep Play: Notes on the Balinese Cockfight" *The Interpretation of Culture*
- Guttman, Allen. 1978. *The Nature of Modern Sports*. Columbia UP
- Azoy, Whitney. 2011 (3<sup>rd</sup> edition). *Buzkashi: Game and Power in Afghanistan*. Waveland
- Merton, Robert K. 1936. *Science, Technology and Society in Seventeenth Century England*.

## 6. Mauss, Durkheim, Galileo, L-S

- \*Mauss, Marcel. 1925. *The Gift*  
 "to catch the fleeting moment when the society and its members take emotional stock of themselves and their situation as regards others" (1954: 77-78)
- Durkheim, Emile. *Elementary Forms of the Religious Life*.
- Clifford, James. 1988. "On Ethnographic Surrealism" in *The Predicament of Culture: Twentieth Century Ethnography, Literature and Art*. (Harvard).
- Trotter, David. 2018. "A Cine-Fist to the Solar Plexus" LRB 2 Aug, p 33-35.  
<https://www.lrb.co.uk/v40/n15/david-trotter/a-cine-fist-to-the-solar-plexus>
- Anderson, Warwick. 2008. *The Collectors of Lost Souls: Turning Kuru Scientists into Whitemen*. JHU.
- Biagioli, Mario. 2010. *Galileo Courtier: The Practice of Science in the Culture of Absolutism*.
- Davis, Natalie. 2000. *The Gift in 16<sup>th</sup> Century France*. OUP
- Sanal, Aslihan. 2011. *New Organs within Us: Transplants and the Moral Economy*. Duke.
- Levi-Strauss, Claude. 1958. "The Story of Asdiwal"
- Godelier, Maurice. 2018. *Claude Levi-Strauss: A Critical Study of His Thought*.
- Sahlins, Marshall. 1987. *Islands of History*. Chicago.
- Vidal-Naquet, Pierre. 1998. "The Black Hunter and the Origin of the Athenian Ephebia." in Vidal-Naquet, *The Black Hunter: Forms of Thought and Forms of Society in the Greek World*. JHU
- Detienne, Marcel. 1972. *The Gardens of Adonis: Spices in Greek Mythology*.
- Mazarrella, William. 2017. *The Mana of Mass Society*. Chicago.
- Jones, Graham. *Magic's Reason*.
- Buyandelger, Manduhai. *Tragic Spirits*

## 7. Basic STS I: epistemes, paradigms, alterities, technologies, obligatory points

## Scientific Revolution(s)

- Shapin, Steven and Simon Shaffer. 1985. *Leviathan and the Air Pump: Hobbes, Boyle and the Experimental Life*. Princeton. **Intro, ch 1**  
[3 technologies, modest witness, witness at a distance, co-production of scientific and political legitimacy]
- Latour, Bruno. 1988. *The Pasteurization of France*. Harvard.  
 [obligatory points of passage, ratios of power]
- Fleck, Ludwik. 1935 [1979] *Genesis and Development of a Scientific Fact*.  
 E.T. F. Bradley and T] Trenn]. Chicago.  
 [no epistemology without history]

## Hegemonic Epistemologies

- Kay, Lily. 2000. *Who Wrote the Book of Life? A History of the Genetic Code*. Stanford.  
 [discursive hegemony]
- Kay, Lily. 1993. *The Molecular Vision of Life: Caltech, the Rockefeller Foundation and the Rise of the New Biology*. Oxford.  
 [funding, biosocial engineering, institutional formations]
- Landecker, Hannah 2007. *Culturing Life: How Cells Became Technologies*. Harvard.  
 [cultural & philosophical implications of technologies]
- Jasanoff, Sheila. 2005. *Designs on Nature: Science and Democracy in Europe & the U.S.*  
 Princeton: intro & ch. 1-2.  
 [civic epistemologies: Germany, US, UK;  
 presuppositions on the right way to make decisions:]
- Felt, Ulrike. 2015. "Keeping Technologies Out: Sociotechnical Imaginaries and the Formation of Austria's Technopolitical Identity." in Jasanoff, Sheila and Sang-Hyun Kim, eds., 2015, *Dreamscapes of Modernity*. Chicago.
- Perrow, Charles. 1999 (2<sup>nd</sup> ed.) *Normal Accidents: Living with High Risk Technologies*  
 New afterword. Princeton. [tight vs loose coupling]
- Tamminen, Sakari and Eric Deibel. 2018. *Recoding Life: Information and the Biopolitical*.  
 Routledge.

## 8. Basic STS II: Situated Knowledges, Alterities, and Feminist Critiques

- Parrenas, Juno Salazar. 2018. *Decolonizing Extinction: The Work of Care in Orangutan Rehabilitation*. Duke.
- Haraway, Donna. 2003. *The Companion Species Manifesto*. Prickly Paradigm.  
 1990. *Primate Visions: Gender, Race, and Nature in the World of Modern Science*.  
 1997. *Modest\_Witness Second\_Millennium.FemaleMan@Meets\_OncoMouse™: Feminism and Technoscience*, Routledge.
- Callison, Candis. 2014. *How Climate Change Comes to Matter: The Communal Life of Facts*.
- Thakor, Mitali. 2016. *Algorithmic Detectives Against Child Trafficking: Data, Entrapment, and the New Global Policing Network*.
- O'Leary, Mary Beth. 2017. "Closing the Gender Gap in Mechanical Engineering: Women make up 49.5% of MIT's undergraduates in mechanical engineering due to department's proactive approach, study finds."  
<http://news.mit.edu/2017/closing-the-gender-gap-in-mit-mechanical-engineering-0731>
- Tallbear, Kim. 2013. *Native American DNA: Tribal Belonging and the False Promise of Genetic Science*. MN
- Traweek, Sharon. 1995. "Bachigai (Out of Place) in Ibaraki: Tsukuba Science City, Japan." in G. Marcus, ed. *Technoscientific Imaginaries: Late Editions 2*. (Chicago) OR
- Traweek, Sharon. 1996. "Kokusaika (International Relations), Gaiatsu (Outside Pressure), and Bachigai (Out of Place)." in L. Nader, ed. *Naked Science: Anthropological Inquiry into Boundaries, Power and Knowledge*. Routledge.



further basic STS

- Merton, Robert K. 1973. *The Sociology of Science: Theoretical and Empirical Investigations*. Ed. by N. W. Storer. Chicago. [regulative ideals]
- Turner, Stephen. 2007. "Merton's Norms in Political and Social Context" J. Classical *Sociology*. 2007, 7(2): 161-179.
- Rheinberger, Hans-Jörg, 2010. *An Epistemology of the Concrete: twentieth century histories of life*. (Duke) ch.s on **Fleck**, the **Gene**, "The Concept of **Information** (in Jacob)" [experiment as a machine of surprise, creating epistemic things]
- Ronell, Avital. 2005. *The Test Drive*. (Illinois). [libidinal drives, test drive]

## 9. Critical Theory and History of Technology

- Adorno, Theodor W. "'The Meaning of Working Through the Past,' *Critical Models: Interventions and Catchwords*, trans. Henry W. Pickford (Columbia) 89-103.
- Benjamin, Walter.  
"The Work of Art in the Age of Mechanical Reproduction."  
*One Way Street*: "Fire Alarm", "To the Panetarium"
- Derrida, Jaques.  
1972 [1981] "Plato's Pharmacy." pp 61-172 in *Dissemination*  
1981 "The Aforementioned So-called Human Genome" in *Negotiations*.
- Kittler, Friedrich.  
1999. *Grammaphone, Film, Typewriter*.  
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