

Science and Sociability

Émilie du Châtelet (1706-1749)

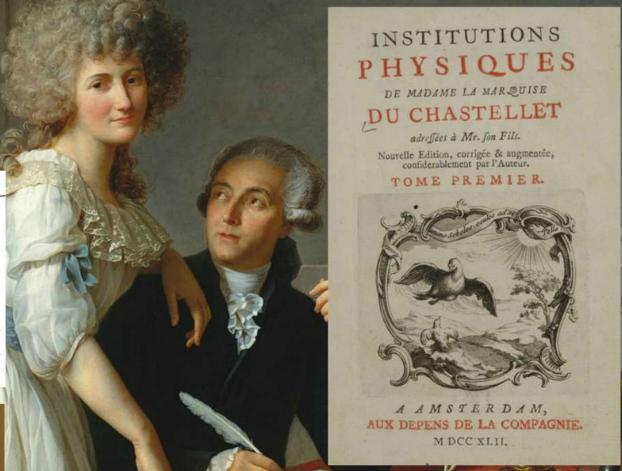
Marie-Anne Paulze (1758-1836)

Remarqued sur l'impossibilité de latissaire en nombres entiere a l'équation x + y = 2 P.

Dimpostibilité de cette équation servit hord de doute hi on pouvois

Pour toute autie valeur de p que p= 2, il y a tongourd une infinité de nombres premient de la forme Np+1 pour lesquels on ne peut trouver deux rehaut pièmes puissances dant la différence soil l'anité.

Sophie Germain (1776-1831) Antoine Auguste Le Blanc



- R. Laubenbacher, D. Pengelley (2010) "Voici ce que j'ai trouvé:" Sophie Germain's grand plan to prove Fermat's Last Theorem', Historia Mathematica (37-4)
- Mary Terrall (1985) "Émilie Du Châtelet and the Gendering of Science", History of Science (33.3)
- Claude Viel (1995) "Le salon et le laboratoire de Lavoisier à l'Arsenal", Revue d'histoire de la pharmacie (306)

Marie Curie, Science Hero

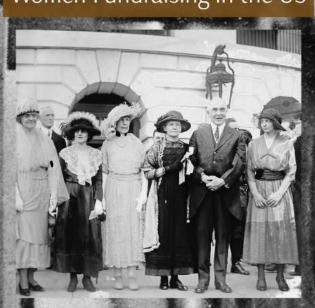
Anne Fellinger (2010) "Femmes, risque et radioactivité en France", Travail, genre et sociétés (23-1)



The 'Radium Girls' Scandal

Mobile X-Ray Units

Women Fundraising in the US













1960s: institutionalization of a feminized underclass of women machine workers, computing work seemed low level



1970s: the gendered labor shift was not a side effect of computerization but a core goal of the project to computerize the State This is all the staff you need to k credit, check and analyse sale heck stocks, produce despatch

om nontechnical office work, which was

t's a waste of money paying people like this



st computer work in government was still done by women. By no longer considering this labor pool for computing posts, the government neglected

Mid-1960s: computers—and the workers associated with them—become more important than previously thought. Labor shortages slowed computing's progress and helped give women an early lead. Not for long.

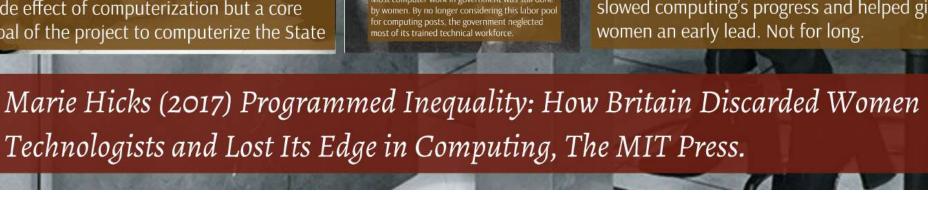
The concurring narration of

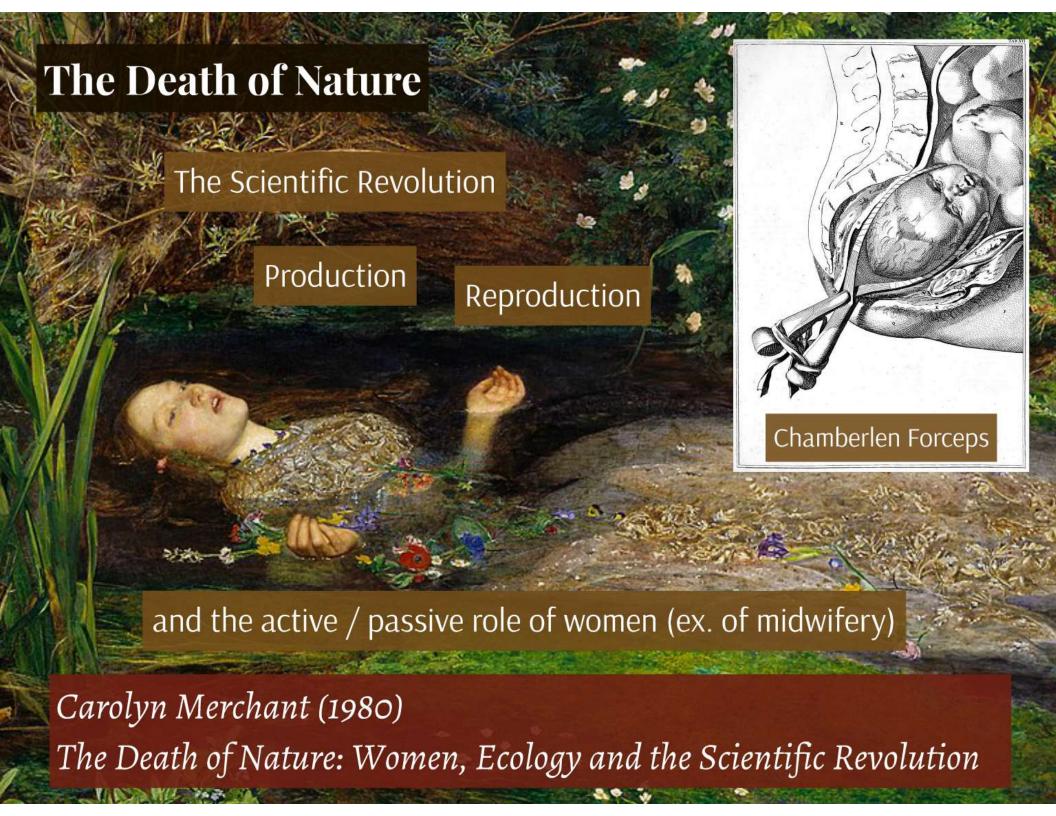
- the diminution of women's contributions in computing - the increasing inability to

revolution to maintain world

perform a technological

power status





First perspective on the science-society interactions: a focus on the social structure of scientific activity

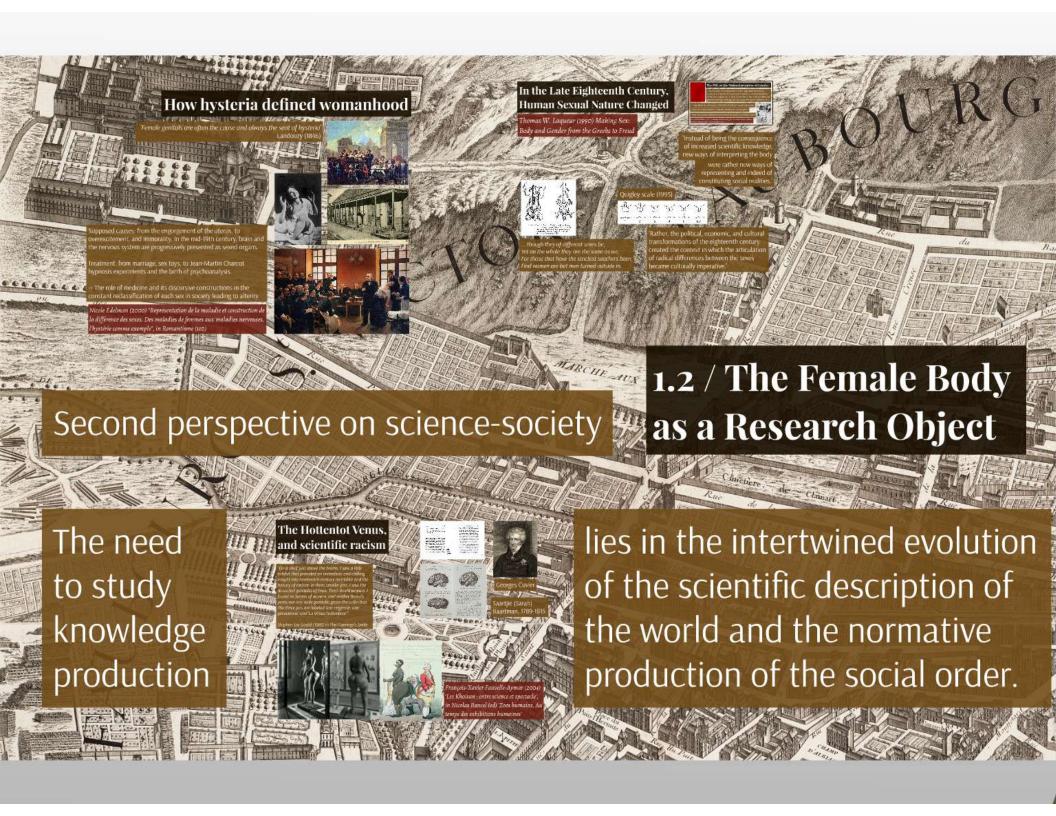
Stories of female pioneers in science highlight:

- the predominance of tacit (social, cultural or moral) rules versus the formal regulation of gender roles;
- a non-linear, non-progressive evolution of women's acceptance or recognition of their contributions.

Humanities and social sciences have to adapt their methodology in order to make women's role visible

'Many studies focus on women who have a claim to greatness or whose activities put them at the center of major historical events (e.g. Grace Hopper) [...] Career-based identities historically privilege a male subject, rarely taking into account the often circuitous and discontinuous nature of women's working lives or the social pressures placed upon women to privilege nonprofessional categories in constructing their identities.' (Marie Hicks)

Delphine Gardey (2000) "Histoires de pionnières", Travail, genre et sociétés, (4-2)



The Hottentot Venus, and scientific racism

"On a shelf just above the brains, I saw a little exhibit that provided an immediate and chilling insight into nineteenth-century mentalité and the history of racism: in three smaller jars, I saw the dissected genitalia of three Third-World women. I found no brains of women, and neither Broca's penis nor any male genitalia grace the collection. The three jars are labeled 'une négresse, une péruvienne' and 'La Vénus hottentote'."

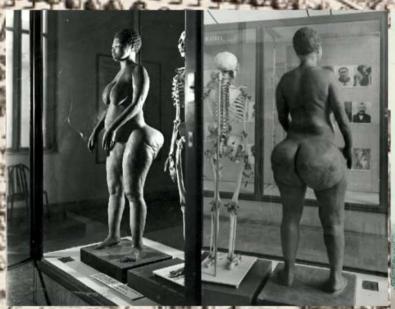
Stephen Jay Gould (1985) in The Flamingo's Smile



Vani 32 par manipo Pratrido relaborar as, sem organo sopre Source - English di Sina est in sujor about prate per la post l'English di sina est in sujor about presi, sem per la post l'English di sina est in sujor about presi per la post le post le post l'est l'est post l'est post l'est l'est l'est post l'est l'est l'est l'est post l'est l'est post l'est l'e

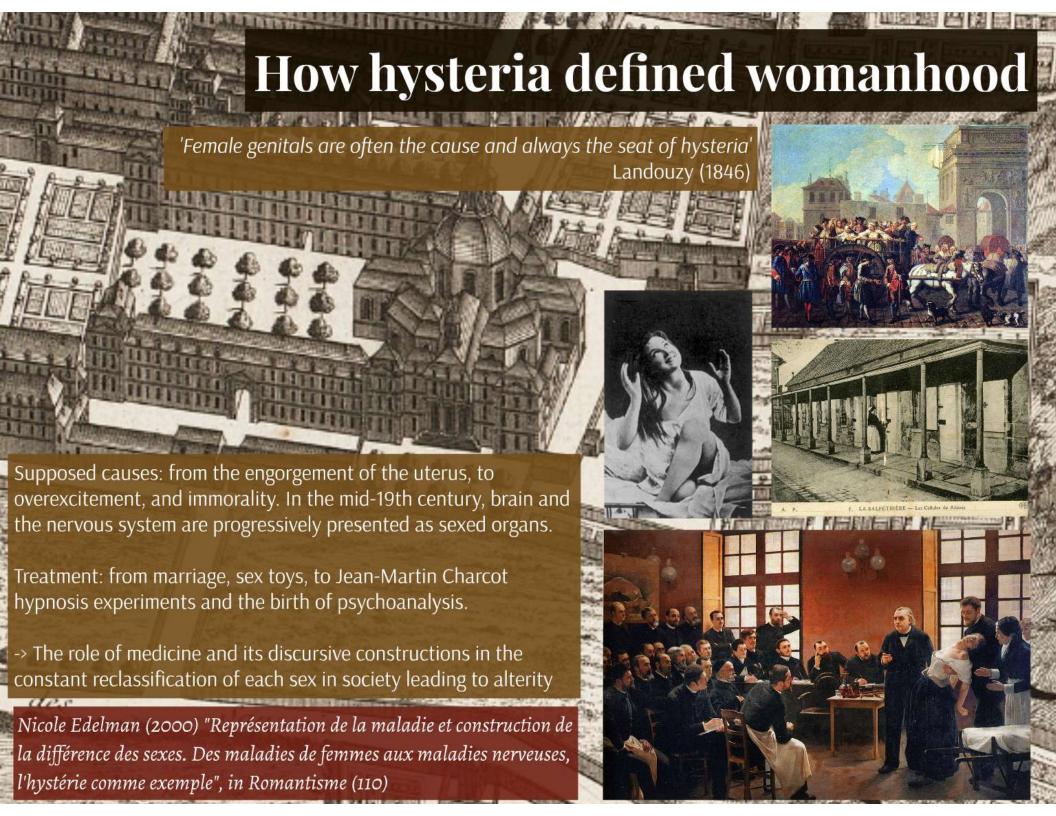
Georges Cuvier

Saartjie (Sarah) Baartman, 1789-1815



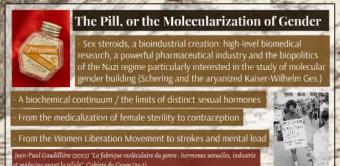


François-Xavier Fauvelle-Aymar (2004)
'Les Khoisan : entre science et spectacle',
in Nicolas Bancel (ed) 'Zoos humains. Au
temps des exhibitions humaines'



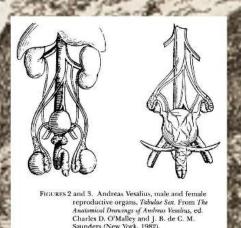
In the Late Eighteenth Century, Human Sexual Nature Changed

Thomas W. Laqueur (1990) Making Sex: Body and Gender from the Greeks to Freud



'Instead of being the consequence of increased scientific knowledge, new ways of interpreting the body

were rather new ways of representing and indeed of constituting social realities.'



Quigley scale (1995)

... though they of different sexes be, Yet on the whole they are the same as we, For those that have the strictest seachers been, Find women are but men turned outside in. 'Rather, the political, economic, and cultural transformations of the eighteenth century created the context in which the articulation of radical differences between the sexes became culturally imperative.'



The Pill, or the Molecularization of Gender

- Sex steroids, a bioindustrial creation: high-level biomedical research, a powerful pharmaceutical industry and the biopolitics of the Nazi regime particularly interested in the study of molecular gender building (Schering and the aryanized Kaiser-Wilhelm Ges.)
- A biochemical continuum / the limits of distinct sexual hormones
- From the medicalization of female sterility to contraception
- From the Women Liberation Movement to strokes and mental load

Jean-Paul Gaudillière (2003) "La fabrique moléculaire du genre : hormones sexuelles, industrie et médecine avant la pilule", Cahiers du Genre (34-1)





1.3/ Is Knowledge Gendered?



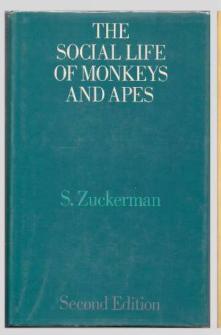


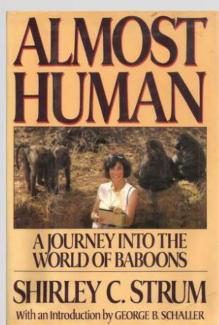




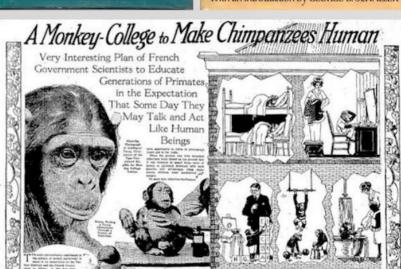
Science and Society - 2020 - Reims Campus Thomas Tari - thomas.tari@sciencespo.fr

Primatology is Politics by Other Means



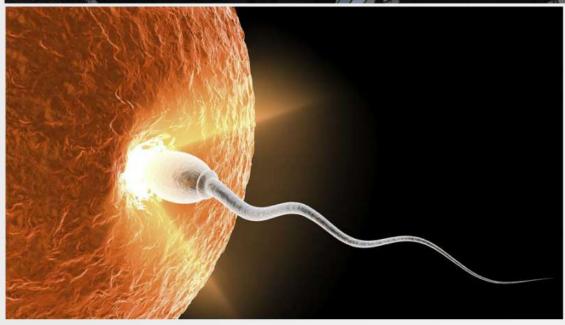


Donna Haraway (1989) Primate Visions: Gender,
Race, and Nature in the World of Modern Science
Chris Herzfeld (2005) Petite histoire des grands singes (translated in 2017) The Great Apes: A Short Story



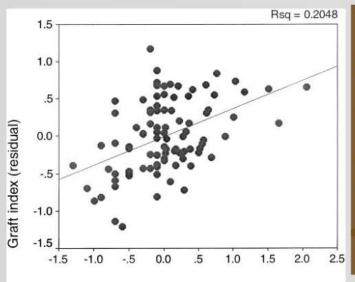






Emily Martin (1991) 'The Egg and the Sperm: How Science Has Constructed a Romance Based on Stereotypical Male-Female Roles', in Signs: Journal of Women in Culture and Society (16-3)

Gender and Corruption



Two studies (Swamy et al. 2000; Dollar et al. 2001) pretended that women are 'the fairer sex' and that we should promote them to public roles

accordingly



Bérengère Sim et al. (2017) 'Gender and corruption: A toolkit to address the 'add women and stir' myth. ' OECD conference

TABLE 1. SUMMARY OF RESEARCH ON GENDER DIFFERENCES IN CORRUPT BEHAVIOUR

women's influence index (residual)				
The second secon	Attitude towards corruption	Accepting bribes	Offering bribes	
	Survey responses suggest a lower tolerance of women towards corrupt behaviours	With some exceptions that seem to respond to contextual factors, there is no significant difference between men and women	Men are more likely to offer bribes	
ON FOLERANCIA O PRIVILEGIOS	However, it seems that this is true only in democracies, but not in autocracies and environments were corruption is endemic and widely tolerated	Women behave more opportunistically: they may accept the bribe, but don't reciprocate with a corrupt favour	The value of bribes offered by men tends to be higher	
#TOLERANCIA O IMPUNIDA TOLERANCIA O PRIVILEGO		Women are less likely to accept bribes than men when there is a perceived risk of sanctions	Both men and women offer higher bribes to men than to women	

An Epistemology of Situated Knowledges

Third perspective on science - society interaction

Knowledge production is social by nature and purity claims can actually alter the validity of facts and the value of science

Objectivity understood as impartiality and a "view from above, from nowhere" is a perspective that under the guise of neutrality, may hide many cultural, social biases.

"They tell parables about objectivity and scientific method to students in the first year of their initiation, but no scientist would be caught dead acting on the textbooks version."

SITUATED KNOWLEDGES: THE SCIENCE QUESTION IN FEMINISM AND THE PRIVILEGE OF PARTIAL PERSPECTIVE

DONNA HARAWAY

Academic and activist feminist inquiry has repeatedly tried to come to terms with the question of what we might mean by the curious and inescapable term "objectivity." We have used a lot of toxic ink and trees processed into paper decrying what they have meant and how it hurts us. The imagined "they" constitute a kind of invisible conspiracy of masculinist scientists and philosophers replete with grants and laboratories. The imagined "we" are the embodied others, who are not allowed not to have a body, a finite point of view, and so an inevitably disqualifying and polluting bias in any discussion of consequence outside our own little circles, where a "mass"-subscription journal might reach a few thousand readers composed mostly of science haters. At least, I confess to these paranoid fantasies and academic resentments lurking underneath some convoluted reflections in print under my name in the feminist literature in the history and philosophy of science. We, the feminists in the debates about science and technology, are the Reagan era's "special-interest groups" in the rarified realm of epistemology, where traditionally what can count as knowledge is policed by philosophers codifying cognitive canon law. Of course, a special-interest group is, by Reaganoid definition, any collective historical subject that dares to resist the stripped-down atomism of Star Wars, hypermarket, postmodern, media-simulated citizenship. Max Headroom doesn't have a body; therefore, he alone sees everything in the great communicator's empire of the Global Network. No wonder Max gets to have a naive sense of humor and a kind of happily regressive, preoedipal sexuality, a sexuality that

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