



DILEMMAS OF A NUCLEAR-ARMED WORLD

Benoit PELOPIDAS

In memoriam Bastien Irondelle

Language of instruction

English

Spring Semester 2017

2nd year undergraduates

Seminar description

This seminar explores the impact of nuclear weapons on the world we live in. It will allow students to better understand policy issues such as the negotiations with Iran, investments in nuclear weapons “modernisation” worldwide, the possibility of a new nuclear arms race, engagement with North Korea.

It addresses security issues but goes beyond them to address ethical and historical issues. It investigates nuclear weapons as techno-political objects which create new dilemmas for people living under their shadow: the “dilemmas of a nuclear-armed world”. By doing so, it allows students interested in international relations, history as well as sociology of science and technology to include the nuclear weapons factor in their thinking without limiting it to security issues and to get a better grasp of the historicity of those dilemmas.

This seminar will be divided in three parts described below. The first part questions the notion of “dilemmas of a nuclear-armed world” itself (it introduces students to nuclear weapons technologies and questions the existence of such dilemmas in contrast to the normalisation of nuclear weapons in the world), the second one focuses on a series of fundamental dilemmas (the fear dilemma, the value dilemma and democracies nuclear dilemma) and the third one focuses on a set of situated dilemmas. In other words, it investigates the dilemmas created by the presence of nuclear weapons in the world from the point of view of different roles and positions in a given society: the civilian citizen, the member of the military, the nuclear scientist and engineer, the public intellectual. It builds on the extensive and ongoing research of the instructor as well as his experience of the politics of nuclear weapons with policymaking elites and civil society.

Instructor’s biography

Prof. Benoît Pelopidas holds the junior chair of excellence in security studies at CERI (Sciences Po). He is also an affiliate of the Center for International Security and Cooperation (CISAC) at Stanford University and a visiting fellow at Princeton University’s Program on Science and Global Security. He has been awarded two international prizes for his research and a British Academy Rising Star Engagement Award in 2016.

He focuses on the construction of knowledge about nuclear weapons, their past and their future and its ethical and political implications. Empirically, Benoit’s focus is on nuclear “close calls” and French nuclear history.

Over the last seven years, he has been engaging with policymaking elites in the US and Europe as well as civil society groups to advocate innovative nuclear disarmament and arms control policies.



Course requirements (grading & assessment)

Students are expected to bring to class a critical and detailed but personal understanding of the readings for the week.

They will participate in simulations and will be assessed by a final essay.

Pedagogical format

The sessions will be divided into two parts: 1 hour lecture by the instructor on the topic of the day, including 15 to 20 minutes of questions and answers; 1 hour of groupwork, debate in class or policy simulation. Every seminar session will start with a five minute oral presentation of the previous session by one student and a 10 minute discussion of the readings of the week for which a student or group of students will be chosen in week 1.

Seminar Preparation

The seminar will be as demanding as it will be rewarding. It will mostly be based on close reading and discussions of the required readings for the week. You will be expected to answer questions about the set reading each week, engage in small group discussions or undertake workshop style tasks in seminars. Therefore, you should come prepared to present some critical thoughts concerning each seminar reading. You will need to have briefly summarised the main features of the content ahead of the seminar in order to engage in discussions with the tutor and other students.

So, ahead of the seminar, it is expected that

1. You plan to have enough time to read and engage critically with all the required readings for the week (read the text once to have a sense of the argument and the way it is articulated, then read it a second time with a view of critiquing it, both from an internal and an external perspective, conceptually, ethically or historically). There is no point in attending the seminar if you have not done at least this reading.
2. You bring an annotated copy of the reading with you as **laptops are not allowed in class, except for students who can document a disability.**
3. Watch the videos associated with the topic of the week

Background reading

Michael Bess. (1993). *Realism, Utopia, and the Mushroom Cloud. Four Activist Intellectuals and Their Strategies for Peace, 1945-1989*. Louise Weiss (France), Leo Szilard (USA), E. P. Thompson (England) and Danilo Dolci (Italy). Chicago: University of Chicago Press.

<http://catalogue.sciencespo.fr/ark:/46513/sc0000143600>

Sohail Hashmi and Steven P. Lee (eds.) (2004). *Ethics and Weapons of Mass Destruction. Religious and Secular Perspectives*, Cambridge: Cambridge University Press.

Version papier : <http://catalogue.sciencespo.fr/ark:/46513/sc0000736262>

Version électronique : <http://catalogue.sciencespo.fr/ark:/46513/sc0001294662>

William Walker, *A Perpetual Menace. Nuclear Weapons and World Order*. London: Routledge, 2011

Version papier : <http://catalogue.sciencespo.fr/ark:/46513/sc0001232644>

Version électronique : <http://catalogue.sciencespo.fr/ark:/46513/sc0001294536>



Seminar outline

Introductory considerations

Session 1. Nuclear weapons technology and their effects

Session 2. Introduction to a nuclear-armed world: making sense of nuclear vulnerability

Session 3. Which dilemmas? Nuclear normalization

Fundamental dilemmas

Session 4. The fear dilemma: a duty, a requirement of deterrence or a distraction

Session 5. Liberal democracies' nuclear dilemmas

Session 6. The weapons' value dilemma: deterrence vs non-proliferation

Session 7. The weapons' value dilemma: safety vs readiness

Personalized dilemmas

Session 8. The dilemmas of the scientists and weapons designers

Session 9. The dilemma of the intellectual. Be an insider or a public intellectual?

Session 10. The dilemmas of the civilian citizen

Session 11. The dilemma of the military

Session 12. Final dilemmas

Introductory considerations

Session 1. Nuclear weapons technology and their effects

Required readings

- Nicholas J. Wheeler and Ken Booth. (2007). "Weapons" in *The Security Dilemma. Fear, Cooperation and Trust in World Politics*, Basingbrooke: Palgrave, pp. 42-58.
<http://catalogue.sciencespo.fr/ark:/46513/sc0001129690>
- Christian Enemark. (2011). "Farewell to WMD: The Language and Science of Mass Destruction", *Contemporary Security Policy* 32(2): 382-400
http://gl5sm8uv5q.search.serialssolutions.com/?V=1.0&N=100&tab=JOURNALS&L=GL5SM8UV5Q&S=T_W_A&C=Contemporary+Security+Policy+
- Lynn Eden, Steven Starr and Theodore Postol (2015). "[What would happen if an 800-kiloton nuclear warhead detonated above midtown Manhattan?](#)" *Bulletin of the Atomic Scientists* February
- Jacques Villain (2014). "Le drame des essais" in *Le livre noir du nucléaire militaire*. Paris : Fayard: 109-136
<http://catalogue.sciencespo.fr/ark:/46513/sc0001265325>

Suggested readings



- Hans Kristensen and Matthew McKinzie (2015). “Nuclear arsenals: Current developments, trends and capabilities”. *International Review of the Red Cross*

899: 563-599

http://gl5sm8uv5q.search.serialssolutions.com/?V=1.0&N=100&tab=JOURNALS&L=GL5SM8UV5Q&S=T_W_A&C=International+Review+of+the+Red+Cross

- Lynn Eden. (2004). *The Whole World on Fire. Knowledge, Organizations and Nuclear Weapons Devastation*, Ithaca: Cornell University Press, pp. 15-36.
<http://catalogue.sciencespo.fr/ark:/46513/sc0000585809>
- Itty Abraham (2016). “What (Really) Makes a Country Nuclear. Insights from Non-Nuclear Southeast Asia.” *Critical Studies on Security* 4 (1): 24-41.
- Hymans, Jacques. (2010). “When Does a State Become a ‘Nuclear Weapon State’?” *Nonproliferation Review* 17(1): 161-180.
http://gl5sm8uv5q.search.serialssolutions.com/?V=1.0&N=100&tab=JOURNALS&L=GL5SM8UV5Q&S=T_W_A&C=Nonproliferation+Review
- Shampa Biswas. (2014). *Nuclear Desire. Power and the Postcolonial Nuclear Order*, Minneapolis: University of Minnesota Press, chapter 3: 109-134.
<http://catalogue.sciencespo.fr/ark:/46513/sc0001274390>
- [The “Los Alamos Primer” on weapons effects](#)

Please do not hesitate to ask if you want to read more on the science of nuclear weapons.

Session 2. Introduction to a nuclear-armed world. Making Sense of Global Nuclear Vulnerability

Required readings

- Benoit Pelopidas. (2013). [Avoir la bombe. Repenser la puissance dans un contexte de vulnérabilité nucléaire globale](#). *CERIScope*
- Scott D. Sagan (2012). “More Will Be Worse” in Kenneth N. Waltz and Scott D. Sagan, *The Spread of Nuclear Weapons. An Enduring Debate*. New York: W.W. Norton, chapter 2
<http://catalogue.sciencespo.fr/ark:/46513/sc0001240570>
- Lee Clarke (1999). *Mission Improbable. Using Fantasy Documents to Tame Disaster*. Chicago: Chicago University Press, pp. 30-40
<http://catalogue.sciencespo.fr/ark:/46513/sc0001133479>
- George N. Lewis (2015). “Technical Controversy: Can Missile Defense Work?” in Catherine Kelleher and Peter Dombrowski (eds.), *Regional Missile Defense from a Global Perspective*. Palo Alto: Stanford University Press, 2015, p. 63-83.
<http://catalogue.sciencespo.fr/ark:/46513/sc0001295849>
- Joseph Masco. (2016). “Terraforming Planet Earth: the Age of Fallout” in Rens van Munster and Casper Sylvest (eds.), *The Politics of Globality since 1945. Assembling the Planet*. London: Routledge.
<http://catalogue.sciencespo.fr/ark:/46513/sc0001287021>

Suggested readings

- Tracy Davis. (2007). *Stages of Emergency. Cold War Nuclear Civil Defense*. London: Duke University, chap. 1
<http://catalogue.sciencespo.fr/ark:/46513/sc0001117972>



- Michelle Bentley. (2012) “The Long Goodbye: Beyond an Essentialist Construction of WMD”, *Contemporary Security Policy* 33(2): 384-406.
http://gl5sm8uv5q.search.serialssolutions.com/?V=1.0&N=100&tab=JOURNALS&L=GL5SM8UV5Q&S=T_W_A&C=Contemporary+Security+Policy
- Christian Enemark (2012) “The Unfinished Business of Abandoning WMD: A Reply to Bentley”, *Contemporary Security Policy* 33(2): 407-412.
http://gl5sm8uv5q.search.serialssolutions.com/?V=1.0&N=100&tab=JOURNALS&L=GL5SM8UV5Q&S=T_W_A&C=Contemporary+Security+Policy
- Alexander Glaser and Andrew Brown. (2016). “On the Origins and Significance of the Limit Demarcating Low-Enriched Uranium from Highly Enriched Uranium”, *Science and Global Security* 24:2, pp. 131-137.
http://gl5sm8uv5q.search.serialssolutions.com/?V=1.0&N=100&tab=JOURNALS&L=GL5SM8UV5Q&S=T_W_A&C=Science+and+Global+Security
- Catherine Kelleher and Peter Dombrowski (eds.), *Regional Missile Defense from a Global Perspective*. Palo Alto: Stanford University Press, 2015.
<http://catalogue.sciencespo.fr/ark:/46513/sc0001295849>
- Patricia Lewis, Benoit Pelopidas, Heather Williams and Sasan Aghlani (2014). *Too Close for Comfort. Cases of Near Nuclear Use and Options for Policy*. London: Chatham House.
- Stephen I Schwartz, “[The Real Price of Ballistic Missile Defenses](#)”, *WMD Junction*, 13 April 2012.
- Eric Schlosser. (2013). *Command and Control*. New York: Allen Lane.
3 éditions :
<http://catalogue.sciencespo.fr/ark:/46513/sc0001249122>
<http://catalogue.sciencespo.fr/ark:/46513/sc0001256103>
<http://catalogue.sciencespo.fr/ark:/46513/sc0001294856>
- Colin N. Waters, James P. M. Syvitski, Agnieszka Gałuszka et. al. (2015). “Can nuclear weapons fallout mark the beginning of the Anthropocene Epoch?”. *Bulletin of the Atomic Scientists* 71:3, pp. 46-57.
http://gl5sm8uv5q.search.serialssolutions.com/?V=1.0&N=100&tab=JOURNALS&L=GL5SM8UV5Q&S=T_W_A&C=Bulletin+of+the+Atomic+Scientists

Session 3. Which dilemmas? Nuclear normalization

Required readings

- Carol Cohn, “[Sex, Death and the Rational World of Defense Intellectuals](#)”, *Signs* 12(4), pp. 687-718.
- Robert J. Lifton and Eric Markusen, “Deterrence and Dissociation”, in *The Genocidal Mentality. Nazi Holocaust and Nuclear Threat*, London, McMillan, 1990, pp. 192-229.
<http://catalogue.sciencespo.fr/ark:/46513/sc0000020191>
- Joseph P. Masco, “Terror as Normality”, *Bulletin of the Atomic Scientists* 69(6), 2013, pp. 26-32.



http://gl5sm8uv5q.search.serialssolutions.com/?V=1.0&N=100&tab=JOURNALS&L=GL5SM8UV5Q&S=T_W_A&C=Bulletin+of+the+Atomic+Scientists

Suggested readings

- Benoit Pelopidas (2012). “Arrogance et catastrophe”, *Critique* 783-784, pp. 710-717.
http://gl5sm8uv5q.search.serialssolutions.com/?V=1.0&N=100&tab=JOURNALS&L=GL5SM8UV5Q&S=I_M&C=0011-1600
- Benoit Pelopidas and Jutta Weldes, ““UK nuclear interests: security, resilience and Trident”, (with Jutta Weldes), in Timothy Edmunds, Robin Porter and Jamie Gaskarth (eds.), *British Foreign Policy and the National Interest*, Basingbroke: Palgrave, 2014, 155-171.
<http://catalogue.sciencespo.fr/ark:/46513/sc0001273279>
- Joseph Masco. (2004). “[Nuclear Technoaesthetics. Sensory Politics from Trinity to the Virtual Bomb in Los Alamos](#)”, *American Ethnologist* 31:3, pp. 1-25.
- Robert Jay Lifton. (1991) “On Numbing and Feeling”, in Robert Jay Lifton and Richard Falk, *Indefensible Weapons. The Political and Psychological Case against Nuclearism*, New York: Basic Books, revised and expanded edition, pp. 100-110.

Videos: *I Live in Fear* (Akira Kurosawa 1954)

I strongly recommend you watch this movie in advance as it will be directly relevant, both for this week and the next.

Fundamental Dilemmas

Session 4: The fear dilemma: a duty, a requirement of deterrence or a distraction

Required readings

- Gunther Anders (1962). “Theses for the atomic age”, *The Massachusetts Review* 3(3): 493-505.
- Kenneth N. Waltz (2012). “More May Be Better” in Kenneth N. Waltz and Scott D. Sagan, *The Spread of Nuclear Weapons. An Enduring Debate*. New York: W.W. Norton, chapter 1.
<http://catalogue.sciencespo.fr/ark:/46513/sc0001240570>
- John Mueller (2010). “Epilogue and an Inventory of Propositions” in *Atomic Obsession. Nuclear Alarmism from Hiroshima to Al Qaeda*, New York: Oxford University Press, pp. 235-240.
<http://catalogue.sciencespo.fr/ark:/46513/sc0001179113>
<http://catalogue.sciencespo.fr/ark:/46513/sc0001294799>



- Lee Clarke. (2005). “The sky could be falling: globally relevant disasters and the perils of probabilism” in *Worst Cases. Terror and Catastrophe in the Popular Imagination*. Chicago: Chicago University Press, pp.25-59.

Suggested readings

- Robert J. Lifton and Eric Markusen. (1990). “Deterrence and Dissociation”, in *The Genocidal Mentality. Nazi Holocaust and Nuclear Threat*, London, McMillan, pp. 192-229.
<http://catalogue.sciencespo.fr/ark:/46513/sc0000020191>
- Joseph P. Masco. (2008). “Survival is our business. Engineering Ruins and Affect in Nuclear America.” *Cultural Anthropology* 23(2), pp. 361-398.
http://gl5sm8uv5q.search.serialssolutions.com/?V=1.0&N=100&tab=JOURNALS&L=GL5SM8UV5Q&S=T_W_A&C=Cultural+Anthropology+
- Martin Amis. (1987). “Introduction: Thinkability” in *Einstein’s Monsters*. New York: Harmony Books.
- Campbell Craig. (2003). *Glimmer of a New Leviathan. Total War in the Realism of Niebuhr, Morgenthau, and Waltz* New York: Columbia University Press.
Version papier : <http://catalogue.sciencespo.fr/ark:/46513/sc0000595465>
Version ebook EBC : <http://ebookcentral.proquest.com/lib/sciences-po/detail.action?docID=909145>

Videos:

[A time-lapse of every nuclear explosion](#)

[Last Week Tonight with John Oliver: Nuclear Weapons, 27 July 2014](#)

Session 5. Liberal Democracies’ nuclear dilemmas

This session will be different from the others in the course as all the students will be asked to provide a 2-3 minutes oral commentary on Lewis Mumford, “Gentlemen: You are Mad!”, *Saturday Review of Literature*, March 2, 1946, pp. 5-7 to start the conversation.

Required readings

- Lewis Mumford, “[Gentlemen: You are Mad!](#)”, *Saturday Review of Literature*, March 2, 1946, pp. 5-7.
- Robert Dahl, *Controlling Nuclear Weapons: Democracy versus Guardianship*, Syracuse: Syracuse University Press, 1985, pp. 5-18.
<http://catalogue.sciencespo.fr/ark:/46513/sc0000763828>
- Thomas E. Doyle, “Liberal democracy and nuclear despotism: two ethical foreign policy dilemmas”, *Ethics and Global Politics* 6(3), 2013, pp. 155-174.
http://gl5sm8uv5q.search.serialssolutions.com/?V=1.0&N=100&tab=JOURNALS&L=GL5SM8UV5Q&S=T_W_A&C=Ethics+and+Global+Politics



- Annette Schaper and Harald Muller, “Torn Apart: Nuclear Secrecy and Openness in Democratic Nuclear Weapon States” in Harald Muller, Matthew Evangelista and Niklas Schroenig, (eds.), *Democracy and Security: Preferences, Norms and Policy-Making*, London: Routledge, 2008: 143-166.
<http://catalogue.sciencespo.fr/ark:/46513/sc0001151821>
<http://catalogue.sciencespo.fr/ark:/46513/sc0001295699>

Suggested readings

- Avner Cohen, *The Worst Kept Secret. Israel's Bargain with the Bomb*, New York: Columbia University Press, chapter 6 and 7, pp. 147-202.
<http://catalogue.sciencespo.fr/ark:/46513/sc0001212227>
- Daniel Deudney, “[Political Fission: State Structure, Civil Society and Nuclear Weapons in the United States](#)” in Ronnie D. Lipschutz (ed.), *On Security*, New York: Columbia University Press, 1998
<http://catalogue.sciencespo.fr/ark:/46513/sc0000184539>
- Richard A. Falk, “Nuclear Weapons and the Renewal of Democracy” in Avner Cohen and Steven P. Lee (eds.), *Nuclear Weapons and the Future of Humanity. The Fundamental Questions*, Rowman & Littlefield, 1986: 437-456.
<http://catalogue.sciencespo.fr/ark:/46513/sc0000566932>
- H. Bruce Franklin, *War Stars. War Stars: The Superweapon and the American Imagination*, University of Massachusetts Press, revised and expanded edition, 2008
Edition 1988 : <http://catalogue.sciencespo.fr/ark:/46513/sc0000004498>
Edition 2008 en commande
- Joseph P. Masco, “Target Audience”. *The Bulletin of the Atomic Scientists* 64:3, 2008, pp. 22-31.
http://gl5sm8uv5q.search.serialssolutions.com/?V=1.0&N=100&tab=JOURNALS&L=GL5SM8UV5Q&S=T_W_A&C=The+Bulletin+of+the+Atomic+Scientists+
- James Lindsay, *Congress and Nuclear Weapons*, Baltimore, Johns Hopkins University Press, 1991
<http://catalogue.sciencespo.fr/ark:/46513/sc0000042361>
- Benoit Pelopidas and Jutta Weldes. (2014). “UK nuclear interests: security, resilience and Trident”, in Timothy Edmunds, Robin Porter and Jamie Gaskarth (eds.), *British Foreign Policy and the National Interest*, Basingbroke: Palgrave, 155-171.
<http://catalogue.sciencespo.fr/ark:/46513/sc0001273279>
- Daryl G. Press, “Theories of credibility” in *Calculating Credibility. How Leaders Assess Military Threats*, Cornell, Cornell University Press, 2007, pp. 8-41.
<http://catalogue.sciencespo.fr/ark:/46513/sc0000954071>
- Bruce Russett, “Democracy, Public Opinion and Nuclear Weapons”, in Philip E. Tetlock et. Alii (eds.), *Behavior, Society and Nuclear War*, Oxford, Oxford University Press, 1989: 174-208.
<http://catalogue.sciencespo.fr/ark:/46513/sc0001223667>



- Henry Shue (2004). "Liberalism. The impossibility of justifying WMD" in Sohail Hashmi and Steven P. Lee (eds.), *Ethics and Weapons of Mass Destruction. Religious and Secular Perspectives*, Cambridge: Cambridge University Press, pp. 139-162.
Version papier : <http://catalogue.sciencespo.fr/ark:/46513/sc0000736262>
Version électronique : <http://catalogue.sciencespo.fr/ark:/46513/sc0001294662>
- Casper Sylvest and Rens van Munster (2016). "Security and liberty" in *Nuclear Realism. Global Political Thought during the Thermonuclear Revolution*. London: Routledge.
<http://catalogue.sciencespo.fr/ark:/46513/sc0001287022>

Recommended video: [short lecture by H. Bruce Franklin](#) at Rutgers University (2011) about *War Stars*

Session 6. The weapons' value dilemma: deterrence vs non-proliferation

Required readings

- Anne Harrington de Santana (2009). "Nuclear Weapons as a Currency of Power. Deconstructing the Fetishism of Force" *Nonproliferation Review* 16:3, pp. 325-345.
http://gl5sm8uv5q.search.serialssolutions.com/?V=1.0&N=100&tab=JOURNALS&L=GL5SM8UV5Q&S=T_W_A&C=Nonproliferation+Review+
- Nick Ritchie. (2013). "Valuing and devaluing nuclear weapons", *Contemporary Security Policy* 34(1), pp. 146-173.
http://gl5sm8uv5q.search.serialssolutions.com/?V=1.0&N=100&tab=JOURNALS&L=GL5SM8UV5Q&S=T_W_A&C=Contemporary+Security+Policy

Suggested Readings

- Beatrice Heuser (1998) *Nuclear Mentalities. Strategies and Beliefs in Britain, France and the FRG*. London: Palgrave.
<http://catalogue.sciencespo.fr/ark:/46513/sc0000239557>
- William Walker. (2011). "Sir Michael Quinlan and the Ethics of Nuclear Weapons" in Bruno Tertrais (ed.), *Thinking about Strategy: A Tribute to Sir Michael Quinlan*, Paris: L'Harmattan, pp. 85-98.
- Martin Senn and Christoph Erhardt. (2014). "Bourdieu and the Bomb. Power, language and the doxic battle over the value of nuclear weapons", *European Journal of International Relations* 20(2): 316-340.
http://gl5sm8uv5q.search.serialssolutions.com/?V=1.0&N=100&tab=JOURNALS&L=GL5SM8UV5Q&S=T_W_A&C=European+Journal+of+International+Relations
- Anne I. Harrington. (2011). "The Strategy of Nonproliferation. Maintaining the Credibility of an incredible pledge to disarm", *Millenium* 40(1), 1-19.
http://gl5sm8uv5q.search.serialssolutions.com/?V=1.0&N=100&tab=JOURNALS&L=GL5SM8UV5Q&S=I_M&C=0305-8298
- Special issue of *Contemporary Security Policy* (2013) on "Valuing and devaluing nuclear weapons".



http://gl5sm8uv5q.search.serialssolutions.com/?V=1.0&N=100&tab=JOURNALS&L=GL5SM8UV5Q&S=T_W_A&C=Contemporary+Security+Policy

Session 7. The weapons' value dilemma: safety vs readiness

Required readings

- Robert L. Purefoy. (2012) "A Personal Account of Steps Towards Achieving Safer Nuclear Weapons in the US Nuclear Arsenal" in George P. Shultz and Sidney D. Drell, (eds.), *The Nuclear Enterprise. High-Consequence Accidents: How to Enhance Safety and Minimize Risks in Nuclear Weapons and Reactors*, Stanford: Hoover Press, pp. 67-89.

Ebook EBC : <http://ebookcentral.proquest.com/lib/sciences-po/detail.action?docID=3301876>

- Peter Feaver (1993). "Command and Control in Emerging Nuclear Nations" *International Security* 17:3, pp. 160-187
http://gl5sm8uv5q.search.serialssolutions.com/?V=1.0&N=100&tab=JOURNALS&L=GL5SM8UV5Q&S=I_M&C=0162-2889
- Eric Schlosser. (2013). "An Abnormal Environment" in *Command and Control*. New York: Allen Lane, pp. 307-334.

3 éditions :

<http://catalogue.sciencespo.fr/ark:/46513/sc0001249122>

<http://catalogue.sciencespo.fr/ark:/46513/sc0001256103>

<http://catalogue.sciencespo.fr/ark:/46513/sc0001294856>

Recommended readings

- Scott Sagan (1993). *The Limits of Safety. Organizations, Accidents and Nuclear Weapons*. Princeton: Princeton University Press.

<http://catalogue.sciencespo.fr/ark:/46513/sc0000109837>

- Susan S. Silbey (2009) "Taming Prometheus. Talking about Safety and Culture", *American Review of Sociology* 35, pp. 341-369.

http://gl5sm8uv5q.search.serialssolutions.com/?V=1.0&N=100&tab=JOURNALS&L=GL5SM8UV5Q&S=T_W_A&C=Annual+Review+of+Sociology

Personalized Dilemmas

Session 8. The dilemmas of the scientists

Required Readings

- Josef Rotblat. (1985) '[Leaving the Bomb Project](#)', *Bulletin of the Atomic Scientists* 41:7



- Hugh Gusterson, “Becoming a Weapons Scientist” in *Nuclear Rites. A Weapons Laboratory at the end of the Cold War*, Berkeley, University of California Press, 1996, pp. 38-67.
<http://catalogue.sciencespo.fr/ark:/46513/sc0000241642>
- Charles Thorpe, “[Violence and the Scientific Vocation](#)”, *Theory, Culture & Society* 21(3), 2004, pp. 59-84.

Suggested readings

- Barton J. Bernstein, “Scientists and Nuclear Weapons in World War II. The background, the experience and the sometimes contested meanings and analyses” in Thomas W. Zeiler and Daniel M. DuBois (eds.), *A Companion to World War II*, Wiley Blackwell, 2012, vol.1, chap. 32. pp. 516-548.
<http://catalogue.sciencespo.fr/ark:/46513/sc0001247877>
- Andrew Brown. (2012) *Keeper of the Nuclear Conscience: The life and work of Josef Rotblat*. Oxford: Oxford University Press, 2012, chapter 3: “paradise denied”.
Ebook EBC : <http://ebookcentral.proquest.com/lib/sciences-po/detail.action?docID=1073501>
- William Walker, *A Perpetual Menace. Nuclear Weapons and International Order*. London: Routledge, 2011, chapter 2.
Version papier : <http://catalogue.sciencespo.fr/ark:/46513/sc0001232644>
Version électronique : <http://catalogue.sciencespo.fr/ark:/46513/sc0001294536>
- Silvan Schweiber, “What is the Enlightenment?”, *In the Shadow of the Bomb: Oppenheimer, Bethe, and the Moral Responsibility of the Scientist*. Princeton: Princeton University Press, 2000, pp. 28-41.
<http://catalogue.sciencespo.fr/ark:/46513/sc0000374681>
- Richard Sennett, “Prologue” in *The Craftsman*, New York, Penguin, 2009, pp. 1-8.
- Joseph Masco, “[Nuclear Technoaesthetics. Sensory Politics from Trinity to the Virtual Bomb in Los Alamos](#)”, *American Ethnologist* 31(3), 2004.
http://gl5sm8uv5q.search.serialssolutions.com/?V=1.0&N=100&tab=JOURNALS&L=GL5SM8UV5Q&S=T_W_A&C=American+Ethnologist+
- Scott D. Sagan, “The Origins of Accidents” in *The Limits of Safety. Organizations, Accidents and Nuclear Weapons*. Princeton, Princeton University Press, 1993, pp. 11-52.
<http://catalogue.sciencespo.fr/ark:/46513/sc0000109837>
- Eric Schlosser, *Command and Control*. New York, Allen Lane, 2013.
3 éditions :
<http://catalogue.sciencespo.fr/ark:/46513/sc0001249122>
<http://catalogue.sciencespo.fr/ark:/46513/sc0001256103>
<http://catalogue.sciencespo.fr/ark:/46513/sc0001294856>
And Bruce G. Blair’s detailed review, “Mad Fiction”, *Nonproliferation Review* 21(2), June 2014, pp. 239-243.
http://gl5sm8uv5q.search.serialssolutions.com/?V=1.0&N=100&tab=JOURNALS&L=GL5SM8UV5Q&S=T_W_A&C=Nonproliferation+Review+



and if you want to know more about Sylvia, Hugh Gusterson. (2004). “Becoming a Weapons Scientist” in *People of the Bomb. Portraits of America’s Nuclear Complex*, London, University of Minnesota Press, pp. 3-20. [1995]

Videos:

[Copenhagen](#) by Howard Davies (2002).

[The Day after Trinity](#), a documentary directed by John Else (1981)

Session 9. The dilemma of the intellectual. Be an insider or a public intellectual?

Required Readings

- Patrick Baert. (2012). “[Tensions within the public intellectual. Political interventions from Dreyfus to the new social media](#)”, *International Journal of Politics, Culture, and Society* 25:4, pp. 111–126.
- Benoit Pelopidas (2016). “Nuclear weapons scholarship as a case of self-censorship in security studies” *Journal of Global Security Studies* 1(4): 326-336.
<https://academic.oup.com/jogss/article/1/4/326/2841104/Nuclear-Weapons-Scholarship-as-a-Case-of-Self>
- Richard Sennett, “Prologue” in *The Craftsman*, New York, Penguin, 2009, pp. 1-8.
<http://catalogue.sciencespo.fr/ark:/46513/sc0001166297>
Reims : <http://catalogue.sciencespo.fr/ark:/46513/sc0001192065>

Supplemented readings

- Marcus G. Raskin, “[The Megadeath Intellectuals](#)”, November 14, 1963.
<http://catalogue.sciencespo.fr/ark:/46513/sc0000053119>
- Paul Rubinson. (2016). *Redefining Science. Scientists, the National Security State and Nuclear Weapons in Cold War America*. Amherst: University of Massachusetts Press, chap. 4 and 6.
- Charles Thorpe, *Oppenheimer. The Tragic Intellect*. Chicago: University of Chicago Press, 2006, “chapter 8. The Last Intellectual?”
Ebook EBC : <http://ebookcentral.proquest.com/lib/sciences-po/detail.action?docID=408397>
- Silvan Schweiber, “[What is the Enlightenment?](#)”, *In the Shadow of the Bomb: Oppenheimer, Bethe, and the Moral Responsibility of the Scientist*. Princeton: Princeton University Press, 2000, pp. 28-41.
<http://catalogue.sciencespo.fr/ark:/46513/sc0000374681>
- Patrick Baert and Alan Shipman, “[Transforming the Intellectual](#)” in Patrick Baert and Fernando Dominguez Rubio, (eds.), *The Politics of Knowledge*, pp. 179-204.



Required readings

- Steven P. Lee (2004) "Weapons of Mass Destruction and the Limits of Moral Understanding: A Comparative Essay" in Sohail Hashmi and Steven P. Lee (eds.), *Ethics and Weapons of Mass Destruction. Religious and Secular Perspectives*, Cambridge: Cambridge University Press, pp. 482-510.

Version papier : <http://catalogue.sciencespo.fr/ark:/46513/sc0000736262>

Version électronique : <http://catalogue.sciencespo.fr/ark:/46513/sc0001294662>

- Matthew Randall. (2007), "Nuclear Weapons and Intergenerational Exploitation", *Security Studies*, 16(4), 2007: 525-554.

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Supplementary readings

On the dilemmas of the feminist

- Carol Cohn and Sara Ruddick. (2004) "A Feminist Ethical Perspective on Weapons of Mass Destruction" in Sohail Hashmi and Steven P. Lee (eds.), *Ethics and Weapons of Mass Destruction. Religious and Secular Perspectives*, Cambridge: Cambridge University Press, pp. 405-435

Version papier : <http://catalogue.sciencespo.fr/ark:/46513/sc0000736262>

Version électronique : <http://catalogue.sciencespo.fr/ark:/46513/sc0001294662>

- Lucinda Joy Peach (2004). "A Pragmatist Feminist Approach to the Ethics of Weapons of Mass Destruction", in Sohail Hashmi and Steven P. Lee (eds.), *Ethics and Weapons of Mass Destruction. Religious and Secular Perspectives*, Cambridge: Cambridge University Press, pp. 436-450

Version papier : <http://catalogue.sciencespo.fr/ark:/46513/sc0000736262>

Version électronique : <http://catalogue.sciencespo.fr/ark:/46513/sc0001294662>

- Catherine Eschle. (2013). "Gender and the subject of (Anti)nuclear Politics: Revisiting Women's campaigning against the Bomb", *International Studies Quarterly* 57(4), pp. 713-724.

http://gl5sm8uv5q.search.serialssolutions.com/?V=1.0&N=100&tab=JOURNALS&L=GL5SM8UV5Q&S=I_M&C=0020-8833

On the dilemmas of the believer

- Sohail Hashmi and Steven P. Lee (eds.) (2004). *Ethics and Weapons of Mass Destruction. Religious and Secular Perspectives*, Cambridge: Cambridge University Press, chapters 9 to 20.

Version papier : <http://catalogue.sciencespo.fr/ark:/46513/sc0000736262>

Version électronique : <http://catalogue.sciencespo.fr/ark:/46513/sc0001294662>

- Frank Jones. (2013). "'The High Priest of Deterrence': Sir Michael Quinlan, Nuclear Weapons, and the Just War Tradition", *Logos. A Journal of Catholic Thought and Culture* 16:3, pp. 16-42.



- Paolo Foradori. (2014). “The Moral Dimension of ‘Global Zero’: the evolution of the Catholic Church’s Nuclear Ethics in a Changing World”, *Nonproliferation Review* 21:2, pp. 189-206.

http://gl5sm8uv5q.search.serialssolutions.com/?V=1.0&N=100&tab=JOURNALS&L=GL5SM8UV5Q&S=T_W_A&C=Nonproliferation+Review+

Session 11. The dilemma of the military

Required Readings

- Jerome D. Frank and John C. Rivard. (1986) “Antinuclear Admirals: An Interview Study”, *Political Psychology* 7:1, pp. 23-52.
http://gl5sm8uv5q.search.serialssolutions.com/?V=1.0&N=100&tab=JOURNALS&L=GL5SM8UV5Q&S=T_W_A&C=Political+Psychology+
- Lee Butler, “[A Voice of Reason](#)”, *Bulletin of the Atomic Scientists*, May-June 1998, pp.58-61
http://gl5sm8uv5q.search.serialssolutions.com/?V=1.0&N=100&tab=JOURNALS&L=GL5SM8UV5Q&S=T_W_A&C=Bulletin+of+the+Atomic+Scientists
- Bret J. Cillessen. (1998). “Embracing the bomb: Ethics, morality, and nuclear deterrence in the US air force, 1945–1955”, *Journal of Strategic Studies* 21(1), pp. 96-134.
http://gl5sm8uv5q.search.serialssolutions.com/?V=1.0&N=100&tab=JOURNALS&L=GL5SM8UV5Q&S=I_M&C=0140-2390

Recommended readings

- George Lee Butler. (2016). [*The Uncommon Cause. A Life at Odds with Conventions. Volume 2: The Transformative Years.*](#) Denver: Outskirts Press, in particular chapter 23, with Franklin Miller.

Movie: [prologue of *The Nuclear Tipping Point* by General Colin Powell](#)

Session 12. Final dilemmas

Have a second look at

- Gunther Anders (1962). “Theses for the atomic age”, *The Massachusetts Review* 3(3): 493-505
- Benoit Pelopidas (2016). “Nuclear weapons scholarship as a case of self-censorship in security studies” *Journal of Global Security Studies* 1(4): 326-336.
<https://academic.oup.com/jogss/article/1/4/326/2841104/Nuclear-Weapons-Scholarship-as-a-Case-of-Self>
- Matthew Randall. (2007), “Nuclear Weapons and Intergenerational Exploitation”, *Security Studies*, 16(4), 2007: 525-554.
http://gl5sm8uv5q.search.serialssolutions.com/?V=1.0&N=100&tab=JOURNALS&L=GL5SM8UV5Q&S=T_W_A&C=Security+Studies



- Michael Bess. (1993). “The Limits of the possible. Three Core Debates” in *Realism, Utopia and the Mushroom Cloud*. Chicago: University of Chicago Press, 1993. Conclusion: 219-245.
<http://catalogue.sciencespo.fr/ark:/46513/sc0000143600>
- Casper Sylvest and Rens van Munster (2016). “Reimagining the Future” in *Nuclear Realism. Global Political Thought during the Thermonuclear Revolution*. London: Routledge.
<http://catalogue.sciencespo.fr/ark:/46513/sc0001287022>