Environmental Justice
Fall 2014
BIOS 50544 / PHIL 43308 (ALSO STV 43396 & IIPPS 50901)

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and Biological Sciences Department

Office hours: M 2-3:15, T 2-3:15; other times are by appointment, per sign-up sheet on office door.

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Class Time: Tues 3:30-6:15
Classroom: Malloy 220

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Course goals:
- to understand problems of environmental injustice (EIJ) throughout the world
- to understand how discriminators use poor science/ethics/logic against minorities and the poor
- to understand the many conflicts of interest that face scientists doing environmental research
- to teach people to avoid suspect inferences, default rules, and subjectivity in science/ethics
- to use classical ethical techniques for resolving ethical dilemmas of EIJ
- to rethink the various ways that unethical science can compromise values of objectivity, justice, free informed consent, duties to the common good, rights to know, and responsibility

Course Overview

I. EJP Severity: How Serious Are Environmental-Justice Problems (EJP)?

II. EJP Causes: Why Do Good People Do So Little About EJP?
- Ignorance about EJP
- “Science Spin” of Special Interests
- Citizens’ Weak Analytical Skills

III. EJP Solutions: How Does Scientific, Logical, & Ethical Analysis Help Resolve EJP?

Questions: At beginning of each class, the professor asks for questions. At this time, be sure to ask questions about assignments, research, procedures, or prior lectures. For government-research, scientific-journal, journal-database questions for your paper assignments, see professional ND (research or government-document) librarians. Please do not email the professor with a question until after (1) you have read the syllabus clearly and (2) you have asked the question at the beginning of class.

Contact Information: Please see Dr. Shrader-Frechette during her office hours or after class. For appointments, please sign the sheet on her office door. If none of these appointment times will work, please follow directions on the office door and email Dr. S-F to let her know when you are available (give 4 options) Monday-Wednesday. Dr. Shrader-Frechette receives about 100 emails daily, many handled by her assistant. Unfortunately, this high email volume means she cannot quickly answer student emails, so do not wait until the last minute, if you need a meeting. She wants to see everyone, so please do not hesitate to see her. For emergency/sickness contact, use email. Be sure to sign up for appointment or contact Dr. Shrader-Frechette about a week ahead of time, as she often is out of town weekly (doing science and ethics advising work in Washington, DC – or pro-bono environmental-justice work somewhere). Typically, she cannot quickly see those who do not make appointments in advance.

Course Format: The course is an interactive seminar, with prof’s 60-minute interactive lecture, followed by 90 minutes of student-based interaction. Note that weekly assignments are like those for 3 class days. Hence you need to balance time, so work does not pile up.

Deadlines: 
- Paper L Copies for entire class due at beginning of class, 9-2-14. Email copies for professor and 2 reviewers, plus hard copy for professor, due 48 hours before the class on this date.
- Project Outline P1 Copies for entire class due at beginning of class, 9-16-14. Email copies for professor and 2 reviewers, plus hard copy for professor, due 48 hours before the class on this date.
- Revised/Corrected P1 Copies for entire class due at beginning of class, 9-30-14. Email copies for professor and 2 reviewers, plus hard copy for professor, due 48 hours before the class on this date.
- Project Paper P2 Copies for entire class due at beginning of class, 10-14-14. Email copies for professor and 2 reviewers, plus hard copy for professor, due 48 hours before the class on this date.
Deadlines:

**Paper E**
Copies for entire class due at beginning of class, 10-28-14. Email copies for professor and 2 reviewers, plus hard copy for professor, due 48 hours before the class on this date.

**Project Paper P3**
Copies for entire class due at beginning of class, 11-11-14. Email copies for professor and 2 reviewers, plus hard copy for professor, due 48 hours before the class on this date.

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### Note that all required papers must (1) have line-numbering and page numbering (so that prof. can always refer to specific line numbers in making comments on paper). Note that P1, rev P1, P2, and P3 papers must (2) be accompanied by explanations of why student did not correct any earlier comment by prof.

### Students who do not bring copies of L, P, E papers for class members; 2 copies of R papers for professor; or copies of L, P, E papers for professor’s box (2 days early), on time, will automatically lose 5 points each time. R papers are due on dates listed above, at class.

### Course Requirements:

For all papers, grammar must be without errors, or students will lose points. For all papers except NYT, be sure that you use (as many as possible) up-to-date scholarly books and articles (especially, from refereed scientific and medical journals). Although professor is one of the top scholars globally in the field covered by the course, do not cite her work in these papers. Also, use no mere website material, no popular sources, no sources likely to have bias (e.g., from industry or citizen-advocacy groups). You may use government documents and journals, even if they are online. Use no newspaper sources, except for paper L (and only if they are absolutely necessary, given the type of paper you are writing). Top journal articles and National Academy of Sciences documents are needed. Other requirements are below:

1. **2 one-page assigned papers:** 1 local (L), 1 ethics (E); bring hard copies for entire class, and put hard copy in professor’s box, 211 Malloy (and send professor e-mail copy), 48 hours before class beginning at which paper is due.
2. **6 one-page review papers (R):** of original P1, P2, E papers of persons on your right and left. Be ready to present R paper in class, and bring 2 copies to class.
3. **a two-page project outline P1** (copies for class); a revised P1 (copies for class); a longer project paper/letter P2; a final P3 (including power-point presentation of P3 for class); a xerox copy of what you send out (corrected P2 = P3) to community/group/officials. Send reviewer and professor an e-copy, and put hard copy of paper in professor’s box (211 Malloy) at least 48 hours before class when paper is due.
4. **in-class analysis/attendance** at every class (C). Excellent presentations (not reading them!) of L, E, P1, P2, P3, and R papers help count for this grade. If you forget class or professor copies, you lose 5 points. Classroom-analysis grade includes going to 2 outside, EJ-related lectures, and turning in one-page summary at next class; final deadline for these 2 lecture papers is last class before Thanksgiving.
5. **quizzes (Q) on reading for the week:** watching 2 videos (V) and turning in video sheets for “Trade Secrets” and “A Plague on our Children.”
6. **NY Times summaries (S) on weekly EJ problems; turn it in at beginning of class; NYT articles must be from previous 6 days and must use flawless grammar.

### Basis for Course Grade:

There will be no tests, but course grade will be determined by weighting each of the following items as 20 percent: (L + E) + (6 Rs) + (P1 + P2 + P3) + (S+ C) + (Q + V).

Students are encouraged to develop their own arguments and, especially, to develop arguments that differ from those of the professor. Students will be graded only on the logic they employ, the quality of their argument methods, and the factual correctness of factual claims, not on the content of their opinions/positions. Be sure to use the 5 criteria and to avoid logical fallacies.

No late papers/assignments will be accepted at all, except in the case of a family death or a student illness. (Doctor’s note is required.) All assignments are due at the beginning of class, and they will not be accepted later. Athletes who must be out of town should turn in papers early and do quizzes early.

### Main Course Work:

Students will choose the same science-, ethics-, and environment-related project (for papers L, P1, P2, and P3) on which to work independently. In the past, many ND students have analyzed draft environmental-impact statements (2500 are done each year in the US), particularly for poor and minority communities. Others have assessed ethical issues underlying current or proposed scientific or environmental legislation, proposals, and policies.

### Class Videos:

(1) Coverup at Ground Zero (ABC “Turning Point”), (2) “Declassified: Human Experimentation,” (3) “Trade Secrets,” (4) NOVA: “A Plague on Our Children,” (5) “Save the Males,” and (6) Moyer’s “Now” series on the income gap and medical insurance (call #M938-31VC) – all are on second floor of library. All are optional, except those noted in 5 above.
Background Reading on Risk-Assessment Methods


Texts

(1) parts of US National Academy of Sciences, RA, UR, to be read online (optional).

(2) Shrader-Frechette, Taking Action, Saving Lives (NY: Oxford University Press, 2007); available from Amazon and bookshop at about $23; and from Oxford U Press for about $20 (if you use coupon on professor's website); and Environmental Justice, $19, by using promotion code 24842, ordering at www.oup.com/us ($33, Amazon).

(3) Peter Singer, 2002, One World: The Ethics of Globalization; $6 on Amazon.


Extra-Credit Papers: Must be of form A or E. Select new topic, in connection with professor, before Fall break. Papers are due at last class before Thanksgiving. In grading, paper will receive same weight as E paper.

Format for 1-Page (Only) Assignment, Weekly NYT Summaries:

1. Use only articles from the previous 6 days. Use Oxford University Press formatting-style for New York Times summaries each week, and put this NYT citation at the top of the summary page, e.g., Gardiner Harris, “Congressional Investigators Are Critical of F.D.A.’s Efforts to Detect Drug Dangers,” The New York Times CLV, no. 53559 (April 24, 2006): A12. (Remember that newspaper style and grammar are not the same as standard style/grammar.)

2. One-page NYT summaries should have 3 paragraphs. First paragraph should be the longest and summarize main points of the article. Second paragraph should explain why the issue is an EJ problem. Third paragraph should summarize what you can do to help alleviate this problem.

3. Cut out the NYT article from the news paper; always staple it to the back side of your summary; use only articles from the last week.

4. Bring hard copy of NYT subscription proof with first Wednesday paper; staple this proof to article and your paper.

Format for Local EJ Paper L: Give full citation at top of page to an article that discusses some local, state, or national EJP that has not been resolved and that is waiting for some local, state, or federal action – in which you can play a role or make a difference. The goal of this paper is (1) to help you choose a topic for papers P1, P2, P3; (2) to help you choose a topic that will make a difference in the world – especially by helping some disenfranchised group or helping your local-state community; and (3) to help you learn to look for EJ-relevant draft environmental impact assessments, proposed rule changes, proposed regulation changes, proposed policies, or draft risk assessments – that you can evaluate as part of class work. Remember that the communities/causes/issues who most need your help are not rich, do not have websites, and are not well known. Begin early to do “detective work” to find an important problem to work on. For instance, google “draft” & “impact” & “pollution” – or google “EPA,” “regulations,” “draft” – or go to the EPA website, or talk to civic leaders, or check the Federal Register – all of which are ways to look for projects. In paper L, first paragraph should tell who the vulnerable EJ group is at risk, e.g., Latinos; what are the risks they face, and why they face them – the causes of the EJ problems. Second paragraph should give one or two sentences of personal and institutional solutions to this problem. Third paragraph should give at least 3 relevant scientific-journal references. References should be from recent, first-rate ethical, medical, and scientific journals/books (or recognized government sources). Use no mere web data, and put references in standard format, as in model-paper P1 on professor’s website. Use the 5 criteria in your arguments. Do not pad the bibliography, and use only references that you cite in text. Do not make claims that you cannot back up with citations, and give several reasons for your claims. Have a very smart person read your paper, ahead of time, to look for logical, conceptual, and grammar problems. Rewrite the paper several times to be sure it is logical, clear, well argued, and grammatical. Always check the grammar paper given by professor, before you turn in your paper. Be sure to use correct citation format, as in
model paper. At class, bring 1 copy for professor and 1 copy for each class member. Students who forget extra copies, for prof. or for class, lose 5 points. At least 48 hours before beginning of class (at which paper is due), put hard copy in professor's box (211 Malloy) and send professor email copy.

Format for Analysis Paper A or Ethics Paper E (on Singer, chs. 1, 2, 3, or 5): make copies for professor and all class members; 1 page maximum.

(1) Give one-sentence quotation + one-sentence argument, + one sentence explaining why flaw is supportive of/damaging to the author's position. Repeat (1) 4 times, so that you have 15 sentences – each a complete argument in the single sentence after the quotation. Use the 5 criteria and avoid fallacies. Always check the grammar paper given by professor, before you turn in your paper. (2) below explains an example of the paper.

(2) Employ same format as given in KS-F sample critique of Lewis later in syllabus and on website, or use same format for E as given in two Locke papers later in syllabus.

The E paper is like paper A in format, but E's content should be largely ethical, not purely scientific-logical. Use the 5 criteria. To help in your analyses, there is much ethics material in the Singer and Shrader-Frechette course readings. From Singer volume, choose which 3 E-paper topics (priority ranked) you would like, pro or con (8 options; see p. 13). Before Friday noon of the first week of class, put 3 priority-ranked E topics (first come, first served) in box by professor's door at 211 Malloy. If you have another topic you would like, propose it to professor at the same time, plus the 3 required topics.

E assignments are "first come, first served"! Note that "con" papers are easier to do than "pro" papers because, if you support a person/position, you must find reasons that are not already used by the person to support his/her position – i.e., you must provide original, new, complete arguments for agreeing with the person. If you are "con," you need only use an argument to show why a claim is doubtful. Keep key claims in E papers of the form: "A is B because C." When you do the paper, be sure to have all 3 parts of paper, and avoid any redundancy. Do not make claims that you cannot back up with citations, and give reasons for your claims. Have a very smart person read your paper, ahead of time, to look for logical, conceptual, and grammar problems. Rewrite the paper several times to be sure it is logical, clear, well argued, and grammatical. Be sure to use correct citation format, as in model paper. At least 48 hours before beginning of class (at which paper is due), put hard copy in professor's box (211 Malloy) and send professor email copy. Students who forget extra copies, for prof. or for class, lose 5 points.

Format for 1-Page (Only) Assignment, Paper R (Review):

6 one-page review papers (R), of P1, P2, E papers of persons on your immediate right and left are due at class on same day as the person's papers are due. Have a very smart person read your paper, ahead of time, to look for logical, conceptual, and grammar problems. Bring copy for professor, and for person being evaluated, and keep a copy for yourself to use when you present your paper in class, or you will lose 5 points. Be as detailed and precise as possible; make no general points; and use the 5 criteria. Each of these R papers must have at least 6 numbered points/sentences (3 positive, 3 constructive criticism), with blank lines between points, assessing the paper. Each sentence must be of the form: "A is B because C." Sample positive sentence: "Mary Smith's argument two is more convincing because she uses arguments and citations from the very top scientific journals, Science, Nature, and Environmental Health Perspectives." Sample constructive-criticism sentence: "Joe Brown's second argument is weak because, although Joe seems possibly correct to argue that increased local breast cancers occurred because of dioxins released from a nearby Monsanto plant, Joe does not systematically eliminate other likely causes of the cancers, such as family history or genetics." Avoid hasty generalizations, such as "Joe's paper is good because..." Mention very specific arguments and claims of author, and make no general statements about the paper. Each point must be very precise and very clear. People whose papers are being evaluated should send both the professor and their reviewers an email copy of their papers (plus a hard copy for professor in box at 211 Malloy), no later than 48 hours prior to class beginning. In email subject line put: "E paper for EJ" and "R paper for EJ" and so on. If authors do not send paper to professor and evaluators in time, authors will lose 20 points. Authors whose papers are being evaluated also should send e copy and put hard copy of paper in professor's box (211 Malloy) 48 hours before class. Format: at center top of paper R, put: "Review of Joe Smith Paper A." Skip 2 lines, and at far left, put your own name, followed by the name of the class: "EJ class. Always check the grammar paper given by professor, before you turn in your paper. Students who forget extra copies, for prof. or for class, lose 5 points.
1. What Happened to the Family Member or Friend: My grandmother was diagnosed with Alzheimer's disease (AD) five years ago at the age of 76. Her AD has progressed since diagnosis. She now has moderate or mid-stage AD (stage 5 out of 7).

2. What May Have Caused What Happened: At least six reasons suggest that my grandmother's AD is related to occupational pesticide exposure as a florist.

First, there is strong evidence that vascular risk factors such as heart disease, stroke, diabetes and smoking are risk factors for AD (Luchsinger et al 2005). My grandmother, however, fits none of these factors.

Second, there is evidence that a history of dementia in siblings and/or parents is also a risk factor for AD (Brown 2005). Yet there is no family history of dementia, neurological disease or AD in my grandmother's family.

Third, numerous studies have found that environmental factors are also risk factors for AD (Gatz et al 2005; Brown 2005; Landrigan et al 2005). Because my grandmother is otherwise healthy and because her AD does not appear to be genetic, it follows that my grandmother might have developed AD because of environmental causes.

Fourth, links have been established between cumulative exposures to pesticides and the development of neurological diseases, particularly Parkinson's disease and AD (Baldi 2003).

Fifth, in 1979, 350 million cut flowers were imported into the United States for use in florist shops. These flowers were imported with strict regulations on pests and plant diseases, but without regulations on pesticides. As a result, imported flowers often underwent heavy pesticide applications prior to shipment. Many of these pesticides were fat-soluble and could be absorbed through the skin. My grandmother, working as a florist from 1965-1982, handled many imported flowers and could have been exposed to exceptional levels of pesticides. (Morse et al 1979).

Sixth, recently, specific pesticides (organophosphates and carbamates) have been closely linked with AD (Brown 2005). In 1979 (again when my grandmother was working as a florist) ten florists were found to have organophosphate poisoning due to occupational exposure to organophosphate pesticides (Morse et al 1979). This suggests that many florists at that time, including my grandmother, were not only exposed to pesticides but to organophosphates in particular. As a florist for seventeen years, my grandmother was likely exposed to cumulative levels of organophosphates that could have reasonably contributed to her AD.

3. Bibliography


"MIT's Mark Dowie has charged that New York Times Science writer, Gina Kolata, has a pro-corporate / anti-public health bias, as revealed in her stories on breast implants. Who is right?"

Thesis: In at least five New York Times articles concerning silicone breast implants, Gina Kolata either ignores or minimizes corporate misconduct or serious public-health concerns, supporting Mark Dowie's charge that Kolata is biased.

1. Gina Kolata's September 18, 1995 New York Times article states that silicone-breast-implant manufacturers "agreed to a class action settlement for women who had implants" because they were "faced with a growing number of lawsuits." But Kolata did not mention that the manufacturers were losing such lawsuits because juries were finding (i) that silicone-breast implants were causing the serious illnesses and injuries alleged and (ii) that some implant manufacturers had affirmatively concealed the adverse results of animal testing (Dow Chemical Co. v. Mahlum).

2. Gina Kolata's September 18, 1995 New York Times article states that "recent studies have found no link between the implants and serious diseases . . . and many doctors believe they are safe." But Kolata did not mention numerous authorities and studies finding (i) that silicone is toxic in both animals and man (Busch 1994); (ii) that women with silicone- breast implants are at higher risk of developing cancer from killer-cell suppression (Campbell 1994); and (iii) that autoantibodies linked to autoimmune symptoms were found in 5% -30% of women with silicone-breast implants (Bridges 1993).

3. Gina Kolata's October 11, 2003 New York Times article states that implant manufacturers were “forced” to compensate women “who the implant makers argued were never sickened by the devices in the first place.” But Kolata does not mention the hundreds of women with breast implants who reported symptoms of chronic fatigue (77%), cognitive dysfunction (65%), severe joint pain (56%), dry mouth (53%), dry eye (50%), hair loss (40%), and difficulty in swallowing (35%) post-implant surgery (Solomon G 1994).

4. Gina Kolata's October 19, 2003 New York Times article states that "most of the [F.D.A. Advisory Panel's] scientists agree that implants have not been linked to a risk of systemic diseases like cancer, lupus or chronic fatigue, or neurological problems." But Kolata does not cite the many studies showing that silicone-associated symptoms go away when the silicone implants are removed (Robinson 1995 and Cuellar 1995).

5. Gina Kolata's January 9, 2004 New York Times article says an Institute of Medicine report found “no conclusive evidence linking the implants to serious diseases,” but Kolata mentions neither many other reports to the contrary, nor the Institute’s finding of “relatively high frequency of local complications that are unique to women with silicone implants” (IOM 1999).

Bibliography


Dow Chemical Co. v. Mahlum, 114 Nevada Advance Opinion No. 155.


[This paper should have cited the Dowie and Kolata sources.]

1. “Ionizing radiation....may or may not be bad in small doses—no one knows” (Lewis, ch. 15, p. 218).

Lewis’ claim is incomplete because he admits, on p. 222, that the National Research Council (National Academy of Sciences) says that the probability of radiation-induced cancer is a function of the amount of radiation received.

Lewis’ incompleteness is damaging to his argument because the incompleteness suggests he may be biased in underestimating the dangers associated with radiation.

Alternative to two previous sentences:

Lewis’ claim could lead to the consequence that people were careless about unnecessary radiation risk because he says “no one knows” if small doses are dangerous.

This consequence is damaging to Lewis’ argument because people ought not ignore even potential risks if they are easily avoidable, e.g., by wearing a lead apron for x-rays.

2. Medical x-rays are examples of voluntary exposure to radiation” (Lewis, ch. 15, p. 219).

Lewis assumes that when people receive x-rays, their exposure to radiation is voluntary.

This assumption is doubtful because doctors, insurers, or employers often require people to receive x-rays, and patients often do not understand the risks involved and hence cannot consent to them.

3. “Nuclear waste must be disposed of carefully” (Lewis, ch. 15, p. 220).

Lewis’ claim above is inconsistent because he also claims (on pp. 245-246) that “high-level waste....risk....turns out to be ridiculously low....High-level nuclear waste disposal is a non-risk."

Lewis’ inconsistency is damaging to his argument because one need not be “careful” about a risk that is “ridiculously low” or a “non-risk”-- emotive language that suggests Lewis’ bias.

4. “The vast majority of all these radiation sources deliver[s] extremely small doses, with minimal if any heal the effects, even though fear of even trivial doses of radiation is common”(Lewis,ch.15,p.220).

Lewis assumes that it is not reasonable to fear trivial doses of radiation.

This assumption is doubtful because Lewis admits ionizing radiation “may be bad in small doses—no one knows” (Lewis, ch. 15, p. 218), and it is reasonable to fear small/unneeded doses of things with cumulative effects.

5. “The maximum permitted exposure for workers in nuclear facilities is 5,000 mr per year, and for the general public 500. We don't know if this much radiation does any harm at all”(Lewis,ch.15,p. 220).

Lewis’ claim is incoherent because (1) the referent of “this much radiation” could be 5,000 or 500 mr and (2) he says (p. 222) “the most authoritative estimates” of radiation risk show that the risk is a function of dose.

Lewis’ incoherence is damaging to his argument both because (1) his language makes his argument unclear and (2) he appears to be biased in underestimating radiation risks.
Thesis: Chapter 9 of How Are We to Live? discusses the nature of ethics, dismisses several theories of ethics, and supports some ethical principles that (Singer says) lead to universal concern for others. There are at least 5 reasons to suggest Singer’s positive account lacks sufficient evidence and that his dismissal of other theories is unwarranted.

1. Singer discusses the possibility that ethics is gendered and hypothesizes that “the predominance of women in environmental and animal movements therefore suggests a greater readiness to work for larger goals and not just to help oneself or one’s own kind” (179) because they have adopted more of an ethics of universal concern, or “care-ethic.” However, one study suggests the care-ethic was not significantly higher in female participants who volunteered than in those who did not (Karniol et al 2003). Partly because Singer may erroneously identify behavior and concern, he insufficiently documents the claim that the nature of ethics has a gender component.

2. Singer claims, as R.M. Hare does, that ethics must be “universalizable,” that we should be “prepared to prescribe them independently of the role that we occupy” (174), taking the needs and desires of all other beings into account. However, Olson and Svensson (2003) show Hare used the term “universalizable” in only one sense: situations with identical properties merit identical moral judgments. Singer may misinterpret Hare and thus have little Hare support that moral judgments must take into account desires and needs of other beings.

3. On page 172, Singer claims that Christianity creates overwhelming guilt and causes the abandonment of ethics in some people because of unnecessary tension between self-interest and ethics when Christians emphasize “the denial of harmless bodily pleasures, especially sexual pleasures.” Yet the philosopher, St. Augustine, argues in his Confessions that sexual pleasures can often be harmful, in that they “overcast [one’s] heart so that [one] is unable to discern pure affection from unholy desires” (Second Book, ch.2). Singer does not address the possibility that moral rules of sexual purity protect people from some harm, such as blinding one’s reason, and he may therefore be unwarranted in dismissing the Christian emphasis on moral rules concerning sexuality.

4. Singer claims the Buddhist tradition is “a failure in social terms” (190) because in Japan, the ‘first precept’ of Buddhism is not upheld: sentient beings are used as food. However, when Singer judges Buddhism, he is assessing Japanese adherence to Theravada Buddhism, though the Buddhism that was introduced into Japan was a less-strict, less-purification-oriented Mahayana Buddhism (Burtt 1982). In applying the standards of one form of Buddhism to another, Singer may unfairly reject Buddhist ethics.

5. Singer refutes the Kantian concept of morality by showing that horrific Nazi acts (e.g. acts of Adolph Eichmann) were merely a consequence of blindly adhering to duties for their own sake (184). However, Claudia Koonz studied the Nazi motivation for genocide and concluded in her book, The Nazi Conscience, that the Holocaust was a result of extreme racism that developed into violence, as German society saw the ethnic majority as morally righteous and denounced corrupting outsiders (Koonz 2005). Given other explanations for the Holocaust, it may be unfair for Singer to dismiss Kantian duty, based on Eichmann’s claim of duty.


The US should not allow proposed, more lenient workplace-pollution (than public) standards, because often workers (1) are not informed about risks; (2) impose risks on the innocent, e.g., future people (3) get no compensating wage differential (CWD); (4) have faulty risk preferences; and (5) should not trade health for money.

Argument 1: The US should not allow more lenient workplace standards, (1) because workers often are not fully informed about higher risks, and industry often covers up the risks (GAO 1999).

Objection 1: Argument 1 is questionable because unions and government regulators can inform workers of the risks, as Congress recently did, in the case of nuclear workers (Congress 1999).

Response 1: Objection 1 is questionable because US union membership is only 14-16 percent (Miller 1999, pp. 57-59), and government often fails in its regulatory capacity (GAO 1999).

A2: The US should not allow more lenient workplace standards, (2) because often worker mutagenic risk is imposed on innocent people, such as future generations (Shrader-Frechette 2002, ch. 5).

O2: A2 is questionable because someone needs to do the risky work, or else the economy would suffer (Dorman 1996, pp. 26-28).

R2: O2 is questionable because human rights take precedence to economics, and because European nations also do risky work, but with very stringent workplace standards (Newton 1996, pp. 135-149).

A3: The US should not allow more lenient workplace standards, (3) because often there is no CWD for workers in environmentally risky occupations (Leigh 1995, pp. 3-7, 215).

O3: A3 is questionable because many economists say there is a compensating wage differential, although it varies from occupation to occupation (Viscusi et al. 2000).

R3: O3 is questionable because although there is an average CWD, disaggregating CWD data shows it exists only for unionized, college-educated, or male workers (Shrader-Frechette 2002, Ch. 7).

A4: The US should not allow more lenient workplace standards, (4) because workers often have faulty or irrational preferences for riskier work (Broome 1999, pp. 192-198).

O4: A4 is questionable because workers have the right to determine what jobs they want, and the market promotes efficient job-risk matchups (Viscusi et al. 2000, pp. 768-769).

R4: O4 is questionable because workers often are forced into jobs, not because of real preferences but because of economic hardship and low skill levels (Levenstein and Wooding 1997).

A5: The US should not allow more lenient workplace standards, (5) because workers ought not be able to trade health for money, since only vulnerable people tend to do so (Leigh 1995, pp. 3-7, 215).

O5: A5 is questionable because such trades promote worker freedom (Viscusi et al. 2000, p. 766).

R5: O5 is questionable because even the courts recognize that paternalism and worker protection sometimes ought to take precedence over complete worker autonomy (Sellars 1997, p. 47).
### FALL 2014, OUTLINE OF LECTURES AND ASSIGNMENTS

<table>
<thead>
<tr>
<th>Date</th>
<th>Section of Course</th>
<th>Lecture</th>
<th>Assignment Due Today</th>
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<tbody>
<tr>
<td>8-26-14</td>
<td>What Are EJP?</td>
<td>(1) Course Overview; EJ Overview</td>
<td>(1) Read ch. 1 EJ; get NYT subscript.</td>
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<td></td>
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<td>(2) Tools of Analysis: Fallacies &amp; 5 Criteria</td>
<td>(2) Work on Paper L, the first version of your main project paper.</td>
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<td>(3) Suggestions for Paper L, P1</td>
<td>(3) By noon Friday, put priority list of 3 E (Singer) topics in prof's box, 211 Malloy, for topics on next page.</td>
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<tr>
<td>9-2-14</td>
<td>LAST DAY TO CHANGE CLASSES</td>
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<td><strong>TO MAKE UP FOR LAST CLASS OF SEMESTER, NOTE</strong> (see item 4 on p. 2)** THAT TURNING IN EITHER 2 SUMMARY SHEETS, COVERING 2 EJ-RELATED OUTSIDE LECTURES----OR 2 ANSWER SHEETS ON 2 VIDEOS, ON LIBRARY RESERVE----ARE DUE AT LAST CLASS BEFORE THANKSGIVING. ALL EXTRA CREDITS ALSO ARE DUE AT LAST CLASS BEFORE THANKSGIVING. HENCE YOU MUST PLAN EARLY TO DO THESE ASSIGNMENTS, AS NONE WILL BE ACCEPTED LATE.**</td>
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<td>9-2-14</td>
<td></td>
<td>(1) Analysis of Bullard</td>
<td>(1) Read-analyze Bullard &amp; Friedman on website; read S-F TSL, ch. 1; turn in paper L for entire class; give professor a hard copy (in her box, 211 Malloy, as explained earlier) and an email copy—both at least 48 hours before class begins. Bring copies of paper to class for all students.</td>
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<td>(2) Analysis of Friedman</td>
<td>(2) First half of class will present paper L.</td>
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<td>(3) Evaluate L papers</td>
<td>(3) Get email addresses of right/left persons.</td>
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<td>9-9-14</td>
<td>Why People Do Not See EJP</td>
<td>(1) Manipulating Govt., Media, Science</td>
<td>(1) Read S-F, TSL, chs. 2-3; <strong>for 5 extra points, turn in “early” P1 paper by 6 pm on day before Class. Tell prof so she can correct your L early.</strong> Give professor a hard copy (in her box, 211 Malloy, as explained earlier) and an e-mail copy—both received no later than 6 pm. Don’t forget table/column comment paper. Bring copies of paper to next class for all students.</td>
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<td>(2) Tools of Analysis</td>
<td>(2) See student work, p. 7 above, for media “spin.”</td>
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<td>(3) Second half of class present paper L</td>
<td>(3) P1 and R authors, be ready to present to class.</td>
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<td>9-16-14</td>
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<td>(1) Flawed Property Rights: Appalachia</td>
<td>(1) Turn in regular paper P1 with copies for entire class, but give to reviewers 48 hours earlier. Give professor a hard copy (in her box, 211 Malloy, as explained earlier) and an email copy—both at least 48 hours before class begins. Don’t forget table/column comment paper. Bring copies of paper to class for all students.</td>
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<td>(2) Do analysis of early P1 papers</td>
<td>(2) Read EJ, ch. 3; turn in R papers.</td>
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<td>(3) Analysis of early P1 papers (emailed 2 days before previous class to R people and 2 copies put in prof's box at door) – 2 days earlier. P1 and R authors, be ready to present to class.</td>
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<td>9-23-14</td>
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<td>(1) Ignoring Consent: Louisiana</td>
<td>(1) Read chs. 4, 6, EJ.</td>
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<td>(2) Ignoring Vulnerability, Native People</td>
<td>(2) Analyze P1 papers and R papers that are presented at class. Bring copies of paper to class for all students.</td>
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<td>(3) Turn in “Trade Secrets” video sheet (from prof.’s website).</td>
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9-30-14  **Why People Do Not See EJP**  (1) Ignoring Equity: Yucca Mountain  
(2) Ignoring Compensation: Workers  
(1) Read chs. 5, 7 EJ; Turn in corrected P1. That is, turn in marked-up, original P1, plus corrected P1 papers, plus column/table comment page, and give professor both these hard copies, ahead of time (in her box, 211 Malloy, as explained earlier), and an email copy—both at least 48 hours before class begins. Bring copies of paper to class for all students.  
(2) Do analysis of P1 and revised P1 papers, and R papers, that are presented at class.

10-7-14  **Ethical Solutions**  (1) Guaranteeing Human Rights  
(2) Questions on P2 papers; video?  
(1) Read S-F, TA, ch. 4; EJ, ch. 2.  
(2) Iron out all possible P2 problems in class.

10-14-14  "  (1) Guaranteeing Human Rights  
(2) Questions on P2 papers; video?  
(1) Turn in original, marked-up P1, plus P2 for professor, plus revised P1 copies for entire class and professor, and R papers; send P2 to reviewers 48 hours ahead, and get ready to give power-point presentation on P3 (revised P2). Give professor these hard copies (in her box, 211 Malloy, as explained earlier) and an email copy—both at least 48 hours before class begins. Have revised P1 and R copies with you.  
(2) Maybe Watch video ("A Plague on Our Children").

10-19 THROUGH 10-26  **FALL BREAK**

10-28-14  "  (1) Stopping Warming; Correcting WTO  
(1) Read Singer, chs. 1-3: do not critique Singer out of context; make sure you know other arguments of his in book. Turn in all Singer (E and R) papers for all topics, for all future dates below; send to reviewers 48 hours earlier. Give professor these hard copies (in her box, 211 Malloy, as explained earlier) and an email copy—both at least 48 hours before class begins. Bring paper copies for all class members.  
(2) Pro Singer 1____________________  Con Singer 1____________________

(3) Pro Singer 2____________________  Con Singer 2____________________

(4) Pro Singer 3____________________  Con Singer 3____________________

10-31-14  **LAST DAY TO DROP CLASS**

11-4-14  "  (1) Using Law; Global Duties  
(2) Pro Singer 4____________________  Con Singer 4____________________

(3) Pro Singer 5____________________  Con Singer 5____________________

(1) Read Singer, chs. 4-5.  
(2) Be ready to present Singer and R papers. Have copies with you of R and revised P1. Bring paper copies for all class members.  
(3) Turn in Video Sheet for “A Plague on Our Children.”
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<tr>
<th>Date</th>
<th>Assignments</th>
<th>Notes</th>
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<tr>
<td>11-11-14</td>
<td><strong>Ethical Solutions</strong></td>
<td>(1) Taking Personal Action (2) Power point presentation, First Part of P2-P3 papers</td>
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<td>(1) Read EJ, chs. 8-9.</td>
<td>(2) Turn in P2 + P3 + power point. Turn in all original, marked-up P2, plus P3 papers. Give professor these hard copies (in her box, 211 Malloy, as explained earlier) and an email copy—both at least 48 hours before class begins. Be ready to present P3. Have copies with you of revised P1 and R. Bring paper copies for all class members.</td>
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<td>11-18-14</td>
<td>&quot;</td>
<td>Power point presentation of P2-P3 papers Be ready to give power point presentation.</td>
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<tr>
<td>11-25-14</td>
<td>&quot;</td>
<td>Power point presentation of P2-P3 papers Turn in all required revisions of P3 paper. Turn in all required revisions of P3 paper. (We may skip class, if we can finish power points.) All extra-credit papers and all lecture summary sheets, for guest lectures, and all video-answer sheets (to substitute for class), are due today. No exceptions.</td>
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<td>12-2-14</td>
<td>&quot;</td>
<td>Power point presentation of P2-P3 papers Be ready to give power point presentation.</td>
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<td>12-9-14</td>
<td>&quot;</td>
<td>Instead of this class, go to 2 EJ lectures, pre-approved by professor, and turn in summary sheet at next class after the lecture. Alternatively, you can watch 2 videos, then fill out answer sheets, then turn in the sheets at the next class after T-giving. One video is on health effects of US a-bomb tests on US citizens (Turning Point). The other is on human experimentation. Answer sheets are on prof's website. This assignment for 12-9-14 was due, at latest, at last class before Thanksgiving.</td>
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