



Shadow Codes of Engineering Ethics:

An Experiment in Ethics Imaginaries

Andrew Katz, Donna Riley, Yanna Lambrinidou Association for Practical and Professional Ethics Reston, VA February 19, 2016

Presentation Overview

- Role of engineering ethics codes
- Project description
- Background history
- Ideas for the future
- Site tour







ROLES OF ENGINEERING ETHICS CODES

- Mandate rigorous, honest, and disinterested engineering practice
- Project a desired future: responsibility is distributed in expectation of engineering missteps, but profession's optimism confirmed

 Express shared values? Why is it necessary to articulate a code? What is the risk of transgressions being addressed by a

code?



ROLES OF ENGINEERING ETHICS CODES

- Distinguish one set of individuals from another (scrupulous and unscrupulous; engineer and non-engineer....)
- Demarcate a privileged role of expertise, and a *lesser role* for others who is and is not responsible for public health, safety, and welfare?
- Reveal identity and power in what is deemed in need of control
- Foreclose alternative practices Davis argues that "knowledge moves to action" but really knowledge is already doing (Dewey) – thus safe and unsafe bridges exist/come into being with codes, but no bridge

ceases to be an option







Project Description

- How institutional power shapes processes and outcomes in engineering ethics
 - Boundary work always precedes ethical work
 - Illuminate the political nature of the process
- Specific Instances
 - Omission of sustainability from the ASEE Code of Ethics
- Discussion
 - Who counts as a moral agent? Who has clout to shape a code?
 - What would it mean to create a "shadow code" of noncanonical engineering ethics canons that reframes priorities or introduces new ones?

Background: Excluding Sustainability from ASEE Code of Ethics

- 2011: Board asked Engineering Ethics Div. to draft code
- Concern about "Encourage students to comply with the principles of sustainable development."
 - "some members (say, in petroleum engineering) would feel that the very nature of their work was unsustainable"
 - But sustainable development has been incorporated in many engineering codes of ethics and ASEE endorsed sustainable development in education in1999
- Different language adopted
 - "Encourage students to be aware of the environmental and social impact of their solutions."
 - Not incidental vagueness or commitment to value-neutral language, but rather an "interested consensus"



Guiding Question

- What would it mean to create a shadow code?
 - Lives outside canonical articulation of engineering ethics
 - Clearinghouse for attempts to reframe priorities or introduce new ones
 - Subversion of prevailing channels of interested consensus formation







Project Goals

- Adoption of specific plank not sole point
- Reveal and challenge how institutional power shapes processes and outcomes
- Boundary work around what is and is not engineering
- Keep archive of proposed additions that ended up on cutting room floor
- This cannot be done incrementally if we want systemic change widening the circle of moral agents shaping the code









Examples From Other Codes

- We expect resistance from conflict avoidant engineers
 - See Architects and Pharmacists discussions in relation to solitary confinement chambers and death penalty
 - Psychologists (APA), psychiatrist (other APA), and prisoner torture







Example Engineering Planks

 Can we petition ASCE to prohibit participation in water privatization?

Drug design and manufacturing

Artificial intelligence

Challenge social injustice



 Keep consensus moving – impermanent agreement is reflexive



RAEL PUEBL



SHADOWCODES.ORG

- The webpage: http://shadowcodes.org/
- Have ideas, an interest in contributing, or more questions? Contacts us:

engineeringshadowcodes@gmail.com

Shadow Codes on Engineer Aspace for envisioning alternative canons in engineering eth HOME ABOUT ADDITIONAL RESOURCES BACKGROUN	ics .
About	Search
This site is intended to be a space for starting conversations that envision alternative canons for engineering ethics — canons that should have been but weren't. We invite anyone to join the conversation by posting a comment or emailing us at engineeringshadowcodes@gmail.com if you're interested in authoring a separate post. Share this: Press This Twitter F Facebook G Google	Recent Posts Updates with the American Psychological Association and Prisoner Interrogation Weapons Manufacturing Psychologists and Ethics Education Pharmacists and Lethal Inject Prisons and Architects – A Transferable Lesson?





QUESTIONS?

