Park Atkinson Doing

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Cornell University
Ithaca, NY, 14851
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Academic Positions

Lecturer, Bovay Program for History and Ethics in Engineering, Department of Electrical and Computer Engineering, Cornell University (2005-Present)
Visiting Assistant Professor, Department of Science and Technology Studies, Cornell University (2007, 2008, 2010)
Postdoctoral Associate, Bovay Program for History and Ethics in Engineering, Department of Electrical and Computer Engineering, Cornell University (2003-2005)

Education

Ph.D. Cornell University, Department of Science and Technology Studies (2003)
Dissertation Title: "Velvet Revolutions: Accounting for Epistemic and Political Change at a Modern Physics Laboratory amid the Second Rise of Biology in Synchrotron Science"
M.Eng.E.E. Cornell University (1993)
B.S.E.E. Cornell University (1988)

Publications

Book

P. Doing, *Velvet Revolution at the Synchrotron: Biology, Physics, and Scientific Change,* (Cambridge: MIT Press) 2009.

Peer Reviewed Articles and Chapters

P. Doing, "Give me a Laboratory and I Will Raise a Discipline: The Past, Present, and Future Politics of Laboratory Studies," in Ed Hackett, Olga Amsterdamska, Mike Lynch, and Judy Wajcman, eds., *The Handbook of Science and Technology Studies*, (Cambridge: MIT Press) 2007.

P. Doing, "Lab Hands and the 'Scarlet O': Epistemic Politics and (Scientific) Labor, *Social Studies of Science* 34:3 (2004): 299-323.

P. Doing, S. Kycia, and Q. Shen, "Mosaic monochromator applications at the Cornell High Energy Synchrotron Source," *Proceedings of the SPIE - International Society for Optical Engineering* 3448:32 (1998).

J.R. Helliwell, S. Ealick, P. Doing, T. Irving, and M. Szebny, "Towards the Measurement of Ideal Data for Macromolecular Crystallography Using Synchrotron Sources," *Acta Crystallographica* D49 (1993): 120-128.

P. Doing, J. White, and Q. Shen, "A High-Power and High-Flux X-ray Wiggler Station at the Cornell High Energy Synchrotron Source," *Nuclear Instruments and Methods in Physics Research* A347 (1994): 73-76.

Other publications/ productions

P. Doing, "Engineering Real World." Play commissioned by the Cornell Engineering College. Produced by the Theatre Arts Department and the Engineering College at Cornell, Dec. 3,4, 2005; Nov. 4,5, 2006; and Nov. 3,4, 2007. Required attendance for all first year engineering students.

P. Doing, moderator, "Let them Eat Laptops," *Bidoun* no. 10 (2007).

(book review) Harry Collins, *Tacit and Explicit Knowledge*, and Michael Polanyi, *The Tacit Dimension,* in *Social Studies of Science*, forthcoming.

(book review) Hans Harbers, ed. *Inside the Politics of Technology: Agency and Normativity in the Co-production of Technology and Society,* in *Isis*, 2005.

Current Research

"Applying Ethnographic Insight to Engineering Ethics: Epistemography, the Space Shuttle Challenger, and the Gulf Coast Underwater Oil Gusher" [Status: Submitted to *Engineering Studies*; under review]

"Who Sustains Whom? And Why?: Reflections on a U.S. Led Water Systems Project in Honduras" [Status: in production]

"Submerging the Empire: The Science and Politics of a Proposed Ethanol Plant on Romulus, NY" [Status: in production]

Teaching

Engineering College, Cornell University

ENGRG 1050, Ethics Component of Introduction to Engineering Seminar
ENGRG 3600/STS 3601, Ethics in Engineering Practice
CEE 492, Engineers for a Sustainable World

Department of Science and Technology Studies, Cornell University

STS 3561, Computing Cultures
STS 631, Qualitative Methods for Studying Science
STS 206, Ethics and the Environment
Knight Writing Seminar, Technology: Utopia or Brave New World?

Teaching Assistant

STS 192, Inventing an Information Society (Prof. Ron Kline)
STS 245, History of Technology in the U.S. –1945- Present (Prof. Ron Kline)
STS 301, The Social Construction of Life (Prof. Michael Lynch)

Laboratory Instructor

PHYS 213, Optics and Waves, Prof. Richard Galik

Invited Talks

"Pragmatism, Empiricism, and Science: What Did Laboratory Studies Do?," Qualitative Analysis Conference, Featured Speaker, Brantford, Ontario (2010)

"The Other in Early Television Test Broadcasts," Anthology Film Archives, New York, NY (2007)

"Velvet Revolutions and Sustainable Meanings: Critical Theory, Technology, Intervention," Department of Media Study, University at Buffalo, Buffalo, NY (2006)

"Velvet Revolution at the Synchrotron: Biology, Physics, Expertise," History of Science/Anthropology Joint Colloquia Series, Harvard University, Cambridge, MA (2005)

"Velvet Revolutions and Sustainable Worlds: Expertise Inside and Outside the Laboratory," Humanities and Contemporary Technology Colloquia Series, Rensselaer Polytechnic Institute, Troy, NY (2005)

Prizes/Awards/Grants

$4K NY State Mellon Humanities Corridor grant to study proposed ethanol plant in Romulus, NY (2007)

Cornell University Faculty Innovation in Teaching (2008-2009)

Nicholas Mullins Paper Prize, Society for the Social Studies of Science (2003). Paper title: "Lab Hands and the 'Scarlet O': On Models, Identities, and Performances"

Hacker-Mullins Paper Prize, Science, Knowledge, and Technology division of the American Sociological Association (2002). Paper title: "Lab Hands and the 'Scarlet O': On Models, Identities, and Performances"

Selected Conference and Workshop Presentations

"Velvet Revolution at the Synchrotron: Shifting to Biology from Physics in Practice," History of Science Society, Toronto, Ontario (upcoming, 2010)

"Technician as Spokesperson: Responses to the Gulf Coast Undersea Oil Gusher," Science Studies Research Group, Cornell University (2010)

"Knowledge and Ethics in the Gulf Coast Undersea Oil Gusher," Bovay Seminar in Engineering Ethics, Cornell University (2010)

"Velvet Revolution at the Synchrotron: On the Underpinnings of STS," Society for the Social Studies of Science, Washington, DC (2009)

"Developing Technologies of Development Technology: Framing U.S. Engineering Projects in Honduras and Nicaragua in the Context of U.S. Engineering Education," International Network of Engineering Studies, Lisbon, Portugal (2008)

"Who Sustains Whom? And Why?: Reflections on a U.S.- Led Water Systems Project in Honduras," Society for the History of Technology, Lisbon, Portugal (2008)

"Submerging the Empire: The Science and Politics of a Proposed Ethanol Plant on Romulus, NY," The Mellon Humanities Corridor Workshop, Syracuse, NY (2007)

"When it Rains it Doesn't Pour, But Whose Fault is it? And What is It? Considerations of a U.S.- Backed Water System Project in Honduras," Society for the Social Studies of Science, Montreal, Quebec (2007)

"(Labor)atory/(Fact)ory," Society for the Social Studies of Science, Vancouver, BC (2006)

"Construction/Intervention: Performing Epistemology in Engineering Practice, Pedagogy, and Ethics," International Network of Engineering Studies, Blacksburg, VA (2006)

"Velvet Revolutions and Sustainable Worlds: Expertise as Epistemic Politics in the Plane of Ethnomethodology," Society for Social Studies of Science, Pasadena, CA (2005)

"Philosophy/Engineering/Design," Engineers for a Sustainable World, Austin, TX (2004)

"Engaging Engineers: Technical Practice and the Art of Ideology," PUGWASH forum on Ethics and Science, Ajacio, France (2004)

"Engaging Engineers: Science Studies and Engineering Education," Society for Social Studies of Science, Paris, France (2004)

"From Ion Trapping to Intensive Tuning: Particle Physicists, X-Ray Physicists, and the Politics of the 'Normal' in Synchrotron Operations," American Sociological Association Atlanta, GA (2003)

"'We are Experiencing Technical(Political) Difficulties': The Political Life of the Technical Effect Known as Ion Trapping," Society for the Social Studies of Science, Cambridge, MA (2001)

Professional and University Service

Coordinator, weekly Bovay Seminar on Engineering Ethics
Coordinator, annual Bovay Lecture
Social Studies of Science, manuscript reviewer
National Science Foundation, Science and Society Program, proposal reviewer

Faculty Advisor

Engineers for a Sustainable World
Partnership for Honduran Health
National Society for Collegiate Scholars

Non-Academic Positions

Cornell High Energy Synchrotron Source
Assistant Manager of Operations (1994-2000)
Research Support Specialist (1992-1994)

NCR Corporation
Design Engineer, Ithaca, NY (1990-1992)
Engineering Intern, Paris, France (1989)
Engineering Intern, Dayton, OH (1985-1988)

Other

Patents
3 Patents awarded via NCR Corporation in the field of laser screening technology (1998)

Film Screenings and Exhibits
"MoneyShot," Mechanical TV/Super 8, Global Super 8 Day, Squeaky Wheel Theater, Buffalo, NY (2003)

"Guru/Hearing," Video/TVSouth Eastern Women's Studies Association Meeting, Blacksburg, VA (2003) and Cornell University Cinema, Ithaca, NY (2003)

"Impassioned Performance," Video/TV, See Spot Gallery, Ithaca, NY (2002)

"Transmission 01," Mechanical TV/Video, Julie Murray Curatorial Project, Squeaky Wheel Theater, Buffalo, NY (2001)