

CURRICULUM VITAE

Sulfikar Amir, PhD.

Associate Professor
Division of Sociology
School of Social Sciences
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EDUCATION

Doctor of Philosophy (2005)
Department of Science and Technology Studies
Rensselaer Polytechnic Institute

VISITING POSITIONS HELD

Visiting Fellow (July 2017)
Program in Science, Technology, and Society
Massachusetts Institute of Technology

Honorary Fellow (December 2016-June 2017)
The Holtz Center for Science and Technology Studies
University of Wisconsin--Madison

Visiting Fellow (September – December 2007)
East West Center
Washington, DC.

Visiting Research Fellow (June – August 2007)
Institute of Southeast Asian Studies
Singapore

Lecturer (2006 – 2007)
Graduate Program of Development Studies
Institut Teknologi Bandung

Adjunct Assistant Professor (2005 – 2006)
Department of Science and Technology Studies
Rensselaer Polytechnic Institute

BOOK

The Technological State in Indonesia: the Co-constitution of High Technology and Authoritarian Politics. London: Routledge, 2012.

Reviewed by:

1. Alpha A. Rachman in *Contemporary Southeast Asia*
2. Itty Abraham in *Science, Technology, and Society*.
3. Yohanes Sulaiman in *Strategic Review*.
4. Anto Mohsin in *East Asia Science, Technology, and Society*.
5. Sören Eriksson in *Asian Geographer*.

REFERRED JOURNAL ARTICLES

Amir, S. and Vivek Kant (forthcoming) "Sociotechnical Resilience: A Preliminary Concept." *Risk Analysis*. DOI: 10.1111/risa.12816.

Amir, S. (2017) "Reconstructing the Archipelago" *East Asian Science, Technology and Society* 2009 11(1): 1-7. (Duke University Press).

Tasic, J. and Amir, S. (2016) "Informational Capital and Disaster Resilience: The Case of Jalin Merapi." *Disaster Prevention and Management*. 25(3).

Amir, S. (2015) "Manufacturing Space: Hypergrowth and the Underwater City in Singapore." *Cities*. 49: 98-105.

Amir, S. and Juraku, K. (2014) "Undermining Disaster: Engineering and Epistemological Bias in the Fukushima Nuclear Crisis" *Engineering Studies*. 6(3): 210-226.

Amir, S. and Nugroho, Y. (2013) "Beyond the Triple Helix: Framing STS in the Developmental Context." *Bulletin of Science, Technology, and Society*. 33(3-4). 2013.

Amir, S. (2010) "Nuclear Revival in Post-Suharto Indonesia." *Asian Survey*. 50(2): 265-86.

Amir, S. (2010) "The State and the Reactor: Nuclear Politics in Post-Suharto Indonesia." *Indonesia*. 89: 101-47.

Amir, S. (2009) "Challenging Nuclear: The State and Anti-Nuclear Movements in Post-authoritarian Indonesia." *East Asian Science, Technology and Society*. 3(2): 343-366.

Amir, S., I. Nurlaila, and S. Yuliar (2009) "Cultivating Energy, Reducing Poverty: Biofuel Development in an Indonesian Village." *Perspectives on Global Development and Technology*. 7(2): 113-132.

Amir, S. (2008) "The Engineers versus the Economists: Disunity of Technocracy in Indonesian Development." *Bulletin of Science, Technology, and Society*. 28(4): 316-323.

Amir, S. (2007) "Nationalist Rhetoric and Technological Development: the Indonesian Aircraft Industry in the New Order Regime." *Technology in Society*. 29(3): 283-293.

Amir, S. (2007) "Symbolic Power in Technocratic Regime: the Reign of B.J. Habibie in the New Order Indonesia," *Sojourn: Journal of Social Issues in Southeast Asia*. 22(1): 83-106.

Amir, S. (2004) "The Regime and the Airplane: High Technology and Nationalism in Indonesia," *Bulletin of Science, Technology, and Society*. 24(2): 107-114.

BOOK CHAPTERS

Hess, David J., Sulfikar Amir, Scott Frickel, Daniel Lee Kleinman, Kelly Moore, and Logan Williams. (2017) "Structural Inequality and the Politics of Science and Technology" in *The Handbook of Science and Technology Studies. 4th Edition*. edited by Ulrike Felt, Clark Miller, Laurel Smith-Doerr, and Rayvon Fouche. MIT Press. [peer-reviewed]

Amir, S. (2014) "Risk State: Nuclear Politics in an Age of Ignorance" in *Routledge Handbook of Science, Technology, and Society* edited by Daniel Kleinman and Kelly Moore. London: Routledge. [peer-reviewed]

Amir, S. (2013) "Accelerated Transformation: High Technology, Nationalism, and Authoritarian Politics in Indonesia." In *Bridging the Technology Gap* edited by Youngsoo Bae and Buhm Soon Park. Seoul National University Press.

Amir, S and Neo Shar Ni (2011) "Nuclear Risk and Public Engagement in Southeast Asia" in *Year Book 2010 of the Institute for Advanced Studies on Science, Technology, and Society* edited by Arno Bamme et al. IAS-STs TU Graz.

Amir, S. (2009) "A Message from Ashabirin: High Technology and Political Islam in Indonesia." In *Mediating Piety: Religion, Technology, and Politics in Asia* edited by Francis Khek Gee Lim. Leiden: Brill.

EDITED SPECIAL ISSUES

Amir, S. (2017) The Archipelago Observed: Knowledge and Transformation in Indonesia. *East Asian Science, Technology and Society*. 11(1)

Anderson, W., S. Moon, and S. Amir. (2009) "Emergent Studies of Science and Technology in Southeast Asia" *East Asian Science, Technology and Society*. 3(2)

DOCUMENTARY FILMS

Healing Fukushima (69 minutes, 2015)

Directed and filmed by Sulfikar Amir

Written by Shi Lin Loh

In the wake of a triple disaster caused by an earthquake, tsunami and nuclear power plant meltdown, medical professionals in Fukushima are tossed into managing a cataclysm of the unknown. Caught off guard by the invisible, unquantifiable hazard of radiation and the scale of catastrophe, they are forced into learning how to handle radiation health risks faced by their patients and themselves. *Healing Fukushima* is a visual chronicle of the difficulties and hard choices made by medical first responders on the frontlines of a series of nuclear meltdowns at Fukushima Daiichi nuclear power station.

Invited screening at:

1. The Ohio State University
2. Drexel University
3. Fukushima Medical University
4. Seijo University

Achievements:

Semi Finalist, The 2017 International Uranium Film Festival

A Journey to Namie (14:40, 2015)

Directed and produced by Sulfikar Amir

Focusing on Namie, a fishermen town surrounded by a river and mountains located only 20 kilometers from Fukushima Daiichi nuclear power station, this documentary short film captures the voiceless of Namie as a victim of natural and man-made disasters.

Official Selection in

1. The 2015 Urbanmedia Maker Film Festival, Atlanta, Georgia
2. The 2015 Anchorage International Film Festival, Anchorage, Alaska.
3. The 2016 Ethnografilm, Paris.
4. The 2016 Greenpoint Film Festival, New York.

Nuklir Jawa (49 minutes; 2012)

Produced by Sulfikar Amir, Directed by Dandhy Laksono. This documentary illustrates the debate and controversy surrounding the proposed construction of nuclear power plant in Central Java, Indonesia.

OTHER PUBLICATIONS (NON PEER-REVIEWED)

Amir, S. (2014). "The Transnational Dimensions of Nuclear Risk" in Development and Disarmament Roundtable. The Bulletin of the Atomic Scientists. Available at <http://thebulletin.org/>

Amir, S. (2004). "Rethinking Design Policy in the Third World," *Design Issues*. 20(4): 68-75.

Amir, S. (2002). "Industrial Design in Indonesia: Education, Industry, and Policy," *Design Issues*. 18(1): 36-48.

RESEARCH GRANTS, SCHOLARSHIPS, AWARDS

Principal Investigator, "Technological Innovation in a Time of Crisis: Nuclear Energy After Fukushima." Ministry of Education Academic Research Fund Tier-1. Total grant: S\$55,000. Year: 2015-2017.

Principal Investigator, "Future Resilient Systems Programme." Singapore-ETH Center and National Research Foundation. (Programme Leader: Prof. Hans Heinemann, ETH Zurich) Total grant: S\$65,000,000. Year: 2014-2019.

Co-Principal Investigator, "Structural and Social Impacts of Rock Blasting on Nearby Environment." L2NIC Ministry of National Development. PI: Assoc. Prof. Zhao Zhiye. Total grant: S\$1,311,200. Year: 2014-2016.

Collaborator, "Governing Compound Disasters in Urbanizing Asia" Ministry of Education Academic Research Fund Tier-2 (PI: Professor Mike Douglass, ARI NUS). Total grant: S\$709,000. Year: 2014-2017.

Convener, "The International Conference on Global STS: Exploring Transnational Dimensions of Science, Technology, and Society. 14-15 March 2014.

Principal Investigator, "A Search for the Origins of Sociotechnical Vulnerability: the Case of Fukushima Nuclear Disaster." Ministry of Education Academic Research Fund Tier-1. Total grant: S\$60,000. Year: 2013-2015.

NTU/NUS-JSPS New Scientific Programme Fellowship. Visiting Scholar at the Graduate University for Advanced Studies Sokendai, Japan. Year: 2011

Co-Investigator, "Underwater Infrastructure and Underwater City in the Future", funded by Competitive Research Program, National Research Foundation. PIs: Dr Chu Jian, Dr Susanto Teng. Total grant: S\$10,000,000. Year: 2010-2013

Principal Investigator, The Rise and Fall of the Technological State in Indonesia, \$5000 Book Project Grant, School of Humanities and Social Sciences, Nanyang Technological University (2009-2010). Total grant: S\$5,000

Principal Investigator, Nuclear Politics and Democracy in Southeast Asia, Start-up Research Grant, School of Humanities and Social Sciences, Nanyang Technological University (2008-2010). Total grant: S\$72,000.

Southeast Asian Studies Fellowship, jointly provided by Henry Luce Foundation, Institute of Southeast Asian Studies (ISEAS), and East-West Center, Washington (2007)

Doctoral Fellowship, School of Humanities and Social Sciences, Rensselaer Polytechnic Institute (2005)

Scholarship, Indonesian Cultural Foundation, New York (2003-2005)

Habibie Doctoral Scholarship, the Habibie Center, Indonesia (2001-2002)

Honored Member, Phi Kappa Phi Arizona State University Chapter (2000)

Fulbright Scholarship, the U.S. Department of State (1998-2000)

PROFESSIONAL SERVICE

International Outreach Committee, The Society for History of Technology, 2013-2015.

Council Member, The Society for Social Studies of Science, 2013-2015.

International Editorial Board, *International Journal of Techno-Ethics*

Technical Editorial Board, *Internetworking Indonesia Journal*

Advisory Board, *Wacana Seni: Journal of Arts Discourse*, Universiti Sains Malaysia

Advisory Board, *East Asian Science, Technology, and Society*

Reviewer, *Asian Biotechnology and Development Review*

Proposal Reviewer, Science, Technology, and Society Programs, U.S. National Science Foundation

International Advisory Board, Asia-Pacific Science, Technology and Society Network Conference 2009 23-25 November 2009 Griffith University, Brisbane

Occasional manuscript reviewer for:

1. Asian Biotechnology and Development Review
2. Asian Journal of Social Sciences
3. Disaster Prevention and Management
4. Bulletin of Science, Technology, and Society
5. Energy Research and Social Science
6. East Asian Science, Technology, and Society
7. Critical Studies on Security
8. Routledge Series on Politics and Sociology
9. Urban Studies

DIVISIONAL SERVICE

Graduate Study Committee, the Division of Sociology, Nanyang Technological University. Period: 2012-2016.

Publishing Coordinator, the Division of Sociology, Nanyang Technological University. Period: 2008-present

Website Designer, the Division of Sociology, Nanyang Technological University. Period: 2009.

Seminar Series Coordinator, the Division of Sociology, Nanyang Technological University. Period: 2008-2009.

Undergraduate Admissions Coordinator, the Division of Sociology, Nanyang Technological University. Period: 2009-2010.

SELECTED CONFERENCE PRESENTATIONS

“Sociotechnical Resilience as an STS Concept” The 2014 Society for Social Studies of Science Meeting. Buenos Aires, Argentina: 19-21 August 2014.

“Linking Sociotechnical Vulnerability to Sociopolitical Environment” The XVIII ISA World Congress of Sociology, Yokohama. July 13-19, 2014.

“The Social Production of Peculiar Space: The Underwater City Project in Singapore” The 2013 Society for Social Studies of Science Meeting. San Diego: 9-12 October 2013.

“Risk State: Nuclear Politics in an Age of Ignorance” The 2013 APSTSN Conference. Singapore 15-17 July 2013.

“Avoiding the Unavoidable: Disaster and Engineering Resilience in the Fukushima Nuclear Crisis” The 2013 Japanese Studies Association of Australia. 8-11 July 2013.

“Colonizing the Underwater: Engineering and National Identity in Singapore” the 5th International Conference of European Society for the History of Science. Athens, 2 November 2012.

“Retaming the Atom: How Disaster Changes Knowledge in the Aftermath of Fukushima” The 2012 Joint Meeting of Society for Social Studies of Science and European Association for Science and Technology Studies. Copenhagen, 20 October 2012.

“Nuclear Power and Democratic Response in Southeast Asia” The 10th East Asia Science, Technology, and Society Conference, Seoul National University. 6-8 September 2012.

Chair, “Social Media and Democratic Politics in Southeast Asia” the 2012 Annual Conference of Asian Studies Association, 15-18 March, Toronto, Canada.

“Sociotechnical Resilience: A Concept” the 2nd Asia Pacific Science, Technology, and Society Network. 19-21 July 2011 Shenyang University, China.

Chair, Narrating Power and the Machine Panel, the 2011 Annual Conference of Asian Studies Association, 30 March – 2 April 2011, Honolulu, Hawaii.

Chair, Theorizing Nuclear in Asia Panel, The 2010 Society for Social Studies of Science Meeting. Tokyo, 25-29 August 2010.

“Aircraft Narratives and Development in Indonesia” the 4th International Conference of the European Society for the History of Science. Barcelona, 18-20 November 2010.

“Risk From Below: Nuclear Power and Public Engagement in Southeast Asia” The 2010 Society for Social Studies of Science Meeting. Tokyo, 25-29 August 2010.

“Leviathan and the Airplane: The Rise and Fall of the Technological State in Indonesia.” The Annual Meeting of the Society for the History of Technology, Pittsburgh, PA, 15-18 October 2009.

“Democracy at Large: Individualization and Oligarchy in Indonesian Democratization.” The 9th Conference of Asia Pacific Sociological Association. Bali, Indonesia. 13-15 July 2009.

“The State and the Reactor; Nuclear Politics in Post-Suharto Indonesia.” International Conference on Society, Culture and Technology at the Dawn of 21st Century. AGH University, Krakow, Poland. 21-22 May 2009.

“Risk and Distrust: the Development of Anti-Nuclear Movements in Contemporary Indonesia.” Workshop on STS in Southeast Asia. Asia Research Institute, NUS. 14-15 January 2009.

“Science and the Politics of Hoax.” Towards STS Networking in the Asia-Pacific Workshop. University of Victoria in Wellington, New Zealand. 1-2 December 2008.

“Challenging Nuclear: The State and Anti-Nuclear Movements in Post-authoritarian Indonesia.” The 2008 Annual Meeting of the Society for Social Studies of Science: Acting with Science, Technology and Medicine. Rotterdam, the Netherlands. 20-23 August 2008.

“Nuclear Revival in Post-Suharto Indonesia.” 42nd Annual Conference of Asian Studies on the Pacific Coast. University of Victoria, British Columbia, Canada. June 13 - 15, 2008

INVITED TALKS

Department/Office Seminar

“When Vulnerability was Hidden: Disaster and the Nuclear Village in Japan” Seminar at Department of Sociology, National Taiwan University. 5 October 2015.*

“Disaster as Revelation: Hidden Vulnerability in the Fukushima Nuclear Accident”. Seminar at Department of Science and Technology Studies, York University, Toronto 2 March 2015.**

“Hidden Vulnerability in the Fukushima Nuclear Meltdown: A Sociotechnical Perspective”. Seminar at the Managing the Atom Project, Belfer Center for Science and International Affairs, Harvard University. 19 December 2014.

“When the Engineers are wrong: The Epistemological Bias in the Fukushima Nuclear Crisis”. Seminar at Science and Global Security, Princeton University. 16 December 2014.*

“Hidden Vulnerability in the Nuclear Village”. The 2014 Colloquium Series of Department of Science and Technology Studies, Rensselaer Polytechnic Institute. 10 December 2014.*

“Manufacturing Space: Examining the Sociotechnical System of Singapore’s “Underwater City”, Department of Science, Technology, and Society, Maastricht University, 6 June 2012.*

“Innovation System of Singapore” A Seminar at the International Business School, Linköping University, Sweden, 4 October 2011.*

“Enhancing Sociotechnical Resilience” Seminar at Institute of Hazard, Risk, and Resilience, Durham University. 26 September 2011.

“From Trade to Knowledge Economy: Singapore’s Science and Technology Policy” Seminar at the Ministry of Research and Technology, Republic of Indonesia. Jakarta 1 July 2011.**

“Why Indonesia Wants to Go Nuclear” Seminar at Energy Studies Institute, National University of Singapore, 13 December 2010.

“The Battle in Jepara: Nuclear Power and the State-Society Relation in Post-New Order Indonesia” Seminar at the Center for Southeast Asian Studies Kyoto University 24 August 2010.

“Pursuing Takeoff: Technological Nationalism and Authoritarian Politics in Indonesia” Seminar at Asia Research Institute, National University of Singapore. 25 September 2009.

Workshops and Meetings

Workshop on Approaches to Comparative Regional Security. University of Bath. 14-16 September 2015. Sao Paulo, Brazil.**

“Infrastructure: Future Resilient Systems in Singapore” Workshop on STS in Asia. HASS MIT. 8-9 December 2014.*

“Knowledge and Institutions in an Emerging Society” Seminar at Knowledge Sector Initiatives. Jakarta 24 November 2014.**

“Hidden Vulnerabilities: Disaster and Expertise in an Age of Complexity” Disaster-STS Workshop, Drexel University. 29-30 April 2014.*

“Nuclear Power and Risk Politics in Southeast Asia” Workshop on New models of development and conservation in Southeast Asia. Cambridge University. Chiang Mai, Thailand 13 February 2014.**

“Understanding Man and Machine: Teaching STS as an Engineering Course” Sokendai-Singapore Workshop on STS Pedagogy. Yokohama, 6-7 January 2014.**

“Nuclear Risk Governance in the Post-Fukushima World”. International Symposium of Risk Governance of Science and Technology. University of Tokyo, 15-17 December 2013.*

“STS and Social Design: Bridging Technology and Social Sciences” International Workshop on Child Safety, Social Design, and STS in East Asia. National Taiwan University, Taipei 4-5 December 2013.

“The Sociology of Disaster: Exploring Vulnerability in Modern Society” The Indonesian Frontiers of Social Sciences Meeting. The Indonesian Academy of Sciences. Lombok, Indonesia 17 and 18 October 2013.**

“Nuclear Power and Social Responses: the Case of Indonesia”. The American Academy of Arts and Sciences Meeting on Emerging Nuclear Power in Regional Contexts: Southeast Asia. Hanoi, Vietnam. 14-17 November 2013.**

“STS and Social Design: Bridging Technology and Social Sciences”. International Workshop on Child Safety, Social Design, and STS in East Asia. National Taiwan University and RISTEX Japan. Taipei, 4-5 December 2013.**

“Science and Society in Asia: Analysis of State and Development” IIAS Roundtable on Beyond the ivory tower: redefining the relationship between science and society in Europe and Asia. Macao, 24 June 2013.**

“Nuclear Politics and Democratic Governance in Southeast Asia.” Workshop on 'The nuclear energy revival and global governance: Asia-Pacific perspectives. The Lowy Institute for International Policy. Sydney, Australia. 10-11 April 2008.**

Symposiums and Conferences

“Governing Disaster in Asia”. The 2015 East Asian Science, Technology, and Society Meeting/APSTSN Conference. Kaohsiung, Taiwan 2-4 October 2015.

“Sociology of Disaster: An Introduction.” The 1st International Conference on Sociology Education. Bandung 12-13 October 2015.**

“Constructing Social Design for Asian Society” Symposium on Design, Culture, and Tradition in Asian Community. Institut Teknologi Bandung 1 September 2015.**

“Rice, Smartphone, and Imaginative Futures: Reconstructing Design in the Asian Globalization”. Papanek Symposium 2013: Emerging and Alternative Economies of Design. University of Applied Arts Vienna. 14-15 November 2013.**

“Nuclear Risk and Public Perception: A Sociological Approach” Guest speaker at The 4th International Conference on Advances in Nuclear Science and Engineering. Bali, Indonesia. 16-19 September 2013.**

“Power, Identity, and Technoscience: Exploring Nation-State in Asia”. Guest Speaker at the International Seminar on Social Studies, Arts, and Humanities. Universitas Pendidikan Indonesia, Bandung. 1 February 2013.**

“Social Media and Democratic Politics in Southeast Asia” The 14th International Relations Students National Meeting, Yogyakarta 27 November 2012.**

“Nuclear Politics and Democracy in Indonesia: An STS Perspective” The 10th East Asian STS Conference. National Seoul University. Seoul, 6-8 September 2012.**

“Nuclear Energy in Southeast Asia: Urban-Rural Socio-political Connections,” the 2nd International Conference on Sustainability in Asia. Hanoi, 2-4 March 2011.**

“Accelerating Transformation: High Technology, Nationalism, and Developmental Authoritarianism in Indonesia, 1966-1998” International Conference on Bridging the Technology Gap. Seoul National University. 4-5 November 2010.**

“Understanding Technological Risk within an STS Framework” Lecture for the Advanced Summer School of Nuclear Engineering and Management with Social-Scientific Literacy. University of Tokyo and University of California, Berkeley. Honolulu, Hawaii. 25 July to 2 August 2010. **

** fully paid *partly paid