

**RONALD J. HERRING**  
*Curriculum Vitae*

**PUBLICATIONS:**

**In Press June 2017**

‘The End of the GMO? Genome Editing, Gene Drives and New Frontiers of Plant Technology.’  
With K. Hefferon. *Review of Agrarian Studies*. V 7, No 2. 2017.

**Biotechnology for a Second Green Revolution in India.** Ed, with N. Chandrasekhara Rao and  
Carl Pray. In Press. Academic Foundation. New Delhi. India.

“Politics of Biotechnology: What Can We Learn from India about Ideas, Interests and  
Outcomes?” in N. Chandrasekhara Rao, Carl Pray and Ronald Herring, Ed *Biotechnology for a  
Second Green Revolution in India*. In Press Academic Foundation. New Delhi. India.

**PUBLICATIONS [By Field, Selected]:**

**Food Politics and Policy**

**The Oxford Handbook of Food, Politics and Society, Editor,** 2015. (Oxford University Press.  
Oxford and New York).

“How is Food Political? Market, State and Knowledge.” Chapter One of R. Herring Ed *The  
Oxford Handbook on Food, Politics and Society*. 2015.

**Food Safety Magazine.** 2015. The nexus between food safety and food security. 21(5). Multiple  
co-authors commentary [http://www.foodsafetymagazine.com/magazine-  
archive1/october-november-2015/the-nexus-between-food-safety-and-food-security/](http://www.foodsafetymagazine.com/magazine-archive1/october-november-2015/the-nexus-between-food-safety-and-food-security/)

“On Risk and Regulation: Bt Crops in India,” **GM Crops and Food.** Vol 5 No 3 Landes  
Bioscience. 2014 DOI:10.4161/21645698.2014.950543  
<http://www.tandfonline.com/doi/full/10.4161/21645698.2014.950543#.VGUQ0L63mS0>

**Politics of Biotechnology and Development**

“The Political Economy of Biotechnology” 2016 With R Paarlberg *Annual  
Review of Resource Economics*. Annual Reviews. Palo Alto, CA.

“State Science, Risk and Agricultural Biotechnology: Bt Cotton to Bt Brinjal in India.  
*The Journal of Peasant Studies*. DOI 10.1080/03066150.2014.951835.

Print Volume 42 No 1 January 2015 pp 159-186.

“Stealth Seeds: Bioproperty, Biosafety, Biopolitics,” (Revised from JDS 2007) in

Emily Marden and R Nelson Godfrey, Eds, *Innovation in Agricultural Genomics*.  
Vancouver: University of British Columbia Press. 2015.

“Politics of Biotechnology: What Can We Learn from India about Ideas, Interests and Outcomes?” in N. Chandrasekhara Rao, Carl Pray and Ronald Herring, Ed *Biotechnology for a Second Green Revolution in India*, Special Issue of *The Journal of Agrobiotechnology Economics and Management* [AgBioForum]. 2015.

“Stealth Seeds: Bioproperty, Biosafety, Biopolitics,” reprint in Peter W. B. Phillips, David Castle and Stuart J. Smyth Eds **Biotechnology, Agriculture and Development**. Edward Elgar: Cheltenham, UK. 2015.

Editor, with N Chandrasekhara Rao and Carl Pray, *Biotechnology for Second Green Revolution in India*. Special Issue of *The Journal of Agrobiotechnology Economics and Management* [AgBioForum]. 2015.

“Regulation of Genetically Engineered Crops in India: Implications of Uncertainty for Social Welfare, Competition and Innovation” with Deepthi Kolady, **Canadian Journal of Agricultural Economics**. Special Issue: *Is There a New Economics of Food?* Vol 62 Issue 4. 2014. pp 471-490.

“Reconstructing facts in Bt cotton: Why scepticism fails.” (Popular version of EPW article) With edit assistance from Ashok Kotwal. *Ideas for India*. June 2014.

“Science, Risk and Regulation,” Op Ed **Indian Express**, February 25, 2014. New Delhi [title varied between print and online editions].

“*Forward*,” to C Kameswara Rao and Seetharam Annadana, **Genetically Engineered Crops in India**. Foundation for Biotechnology Awareness and Education. Bangalore, India. 2014.

“Re-constructing Facts in Bt Cotton: Why Skepticism Fails,” **Economic and Political Weekly**. Vol 48 (18) 33 2013.

“On the ‘Failure of Bt Cotton’: Analysing a Decade of Experience”, **Economic and Political Weekly**, Vol 47(18): 45-54. (With N Chandrasekhara Rao) 2012.

“Genetically Modified Crops,” **Oxford Companion to Economics in India: Revised Edition** Ed Kaushik Basu and Annemie Maertens. New Delhi: Oxford University Press. 2011.

“Eggplant Surprise: The Puzzle of India's First Transgenic Vegetable,” [with Frank Shotkoski] **Scientific American WorldView** London: Nature Publishing Group. 2011.  
<http://www.saworldview.com/article/eggplant-surprise>

- “The Goldilocks Paradox of Biosafety,” in *Symposium: Transgenic Varieties and India’s Agriculture – Response to Dr. MS Swaminathan*, **Review of Agrarian Studies** Vol. 1, No. 1 2011.
- “Epistemic Brokerage in the Bio-Property Narrative: Contributions to Explaining Opposition to Transgenic Technologies in Agriculture,” **New Biotechnology** [formerly *Biomolecular Engineering*] Volume 27, Issue 5, pp 614-622 (2010) [doi:10.1016/j.nbt.2010.05.017](https://doi.org/10.1016/j.nbt.2010.05.017)
- “Framing the GMO: Epistemic Brokers, Authoritative Knowledge and Diffusion of Opposition to Biotechnology.” In Rebecca Kolins Givan, Kenneth M. Roberts and Sarah A. Soule (Eds). *The Diffusion of Social Movements*. New York, Cambridge University Press. 2010.
- Global Rifts over Biotechnology. The V.T. Krishnamachari Memorial Lecture 2009.** Institute of Economic Growth, Delhi University, Distinguished Lecture Series. New Delhi, December 2009.
- "Persistent Narratives: Why is the ‘Failure of Bt Cotton in India’ Story Still With Us?" *The Journal of Agrobiotechnology Economics and Management* [AgBioForum] Vol 12, No 1. 2009.
- “Illicit Seeds: Intellectual Property and the Underground Proliferation of Agricultural Biotechnologies,” with Milind Kandlikar, in *The Politics of Intellectual Property: Contestation over the Ownership, Use, and Control of Knowledge and Information*, edited by Sebastian Haunss and Kenneth C. Shadlen (Cheltenham UK: Edward Elgar, 2009)
- “China, Rice, and GMOs: Navigating the Global Rift on Genetic Engineering,” **The Asia-Pacific Journal: Japan Focus** Volume 7 | Issue 3 | Number 2 2009 <http://apjif.org/-Ron-Herring/3012/article.html>
- “Whose numbers count? Probing discrepant evidence on transgenic cotton in the Warangal district of India,” **International Journal of Multiple Research Approaches**, Vol. 2, No. 2, October, 2008.
- “Opposition to Transgenic Technologies: Ideology, Interests, and Collective Action Frames,” **Nature Reviews Genetics** London. Nature Publishing Group Vol 9 June 2008.
- Transgenics and the Poor: Biotechnology and Development Studies**, ed. Oxon/London. Routledge. 2007. Paperback 2008.
- Commentary*, on Glenn Stone, “Agricultural Deskilling and the Spread of Genetically Modified Cotton in Warangal,” **Current Anthropology** Vol 48 No 1 Feb 2007.
- “Genetically Modified Crops,” **The Oxford Companion to Economics in India**, Ed Kaushik Basu. New Delhi: Oxford University Press. First Edition. 2007.
- Editor, Special Issue of **Journal of Development Studies. Transgenics and the Poor: Biotechnology and Development Studies**. Vol 43 No 1 2007. Awarded The Dudley Seers Memorial Prize London June 2008.

- “Naturalizing Transgenics: Loose Seeds, Official Seeds, and Risk in the Decision Matrix of Gujarati Cotton Farmers.” With Devparna Roy and Charles C. Geisler. **Journal of Development Studies**. Vol 43 No 1. 2007.
- “Stealth Seeds: Biosafety, Bioproperty, Biopolitics.” **Journal of Development Studies**. Vol 43 No 1. 2007.
- “The Genomics Revolution and Development Studies: Science, Politics and Poverty,” **Journal of Development Studies**. Vol 43 No 1. 2007.
- “The Political Biology of Labels: GMOs, LMOs, Transgenics,” **AgBioView** March 8, 2005.  
[http://www.agbioworld.org/newsletter\\_wm/index.php?caseid=archive&newsid=2331d](http://www.agbioworld.org/newsletter_wm/index.php?caseid=archive&newsid=2331d)
- “Indian Cotton: Biology and Utility, Meanings and Histories,” with Ann Grodzins Gold, **Economic and Political Weekly**, Vol 40, No 37. 4117-4120. September 2005.
- “Disaggregating Biotechnology and Poverty,” in Eaglesham, Wildeman and Hardy (Eds) **Agricultural Biotechnology: Finding Common International Goals**. (Ithaca: National Agricultural Biotechnology Council 2005).

### **Social Movements, Class and Politics in South Asia**

- Whatever Happened to Class? Reflections from a Subcontinent***. Edited with Rina Agarwala. Routledge (London and New York) 2016 edition.
- “Class Politics in India: Euphemization, Power and Identity,” **Handbook of Indian Politics** edited by Atul Kohli and Prerna Singh [UK: Routledge] 2013.
- “Poor Choices: Dealignment, Development and *Dalit/Adivasi* Voting Patterns in Indian States,” with Tariq Thachil **Contemporary South Asia** 16:4, 441. 2008.
- Whatever Happened to Class? Reflections from a Subcontinent***. Edited with Rina Agarwala. Routledge (UK) 2008; Daanish (India) 2008; Lexington (US) 2009.
- “Restoring Agency to Class: Puzzles from a Subcontinent,” with Rina Agarwala, **Critical Asian Studies** Vol 38, No 4. December 2006.
- “Why Did ‘Operation Cremate Monsanto’ Fail? Science and Class in India’s Great Terminator-Technology Hoax,” **Critical Asian Studies** Vol 38, No 4. December 2006
- “Miracle Seeds, Suicide Seeds and the Poor: GMOs, NGOs, Farmers and the State,” in Raka Ray and Mary Katzenstein eds, **Social Movements in India: Poverty, Power, and Politics**. (Rowman and Littlefield, Lanham, Md 2005; Oxford University Press, New Delhi 2006).
- “Dilemmas of Agrarian Communism: Peasant Differentiation, Sectoral and Village Politics,” **Third World Quarterly** 11:1 (January, 1989).
- “Stealing Congress Thunder: The Rise to Power of a Communist Movement in South India,” in Peter Merkl and Kay Lawson, eds., **When Parties Fail** (Princeton: Princeton University Press 1988).
- “Radical Politics and Revolution in South Asia: A Review Article,” **Peasant Studies** 7:1

(Winter 1978).

### **Agrarian Political Economy, Agrarian Reform**

- “From ‘Fanaticism’ to Power: Deep Roots of Kerala’s Agrarian Exceptionalism,” in William [Vijay] Pinch ed **Speaking of Peasants: Essays on Indian History and Politics in Honor of Walter Hauser** (New Delhi: Manohar). 2008.
- “Wolf Ladejinsky,” **International Encyclopedia of Social Sciences**, 2nd edition. New York: Macmillan. 2008.
- “Agrarian Reform for a Liberal Pattern of Society?” in **Development in Karnataka: Challenges of Governance, Equity and Empowerment**. Ed Gopal Kadekodi, Ravi Kanbur, Vijayendra Rao. New Delhi: Academic Foundation. 2007.
- “The Political Impossibility Theorem of Agrarian Reform: Path Dependence and Terms of Inclusion,” **Changing Paths: The New Politics of Inclusion**, edited by Peter Houtzager and Mick Moore (University of Michigan Press, Ann Arbor 2003).
- “Beyond the Impossibility Theorem of Agrarian Reform,” in Horacio Morales and James Putzel, et al, eds, **Power in the Village: Institutional Change and Globalization**. (University of the Philippines Press, Quezon City, Philippines 2001).
- “Contesting the ‘Great Transformation’: Local Struggles with the Market in South India,” in James C. Scott and Nina Bhatt, ed, **Agrarian Studies: Synthetic Work at the Cutting Edge** (New Haven: Yale University Press 2001).
- “Más allá del teorema de la imposibilidad política de la reforma agraria”. **Revista Mexicana de Ciencias Políticas y Sociales**. No. 179, May–August 2000. pp. 13–51 [in translation].
- “Condiciones políticas de la reforma agraria y mitigación de la pobreza,” in Eduardo Robledo Rincon, editor, **Reforma Agraria y Desarrollo Rural en el Siglo XXI** (Mexico City: Procuraduría Agraria) 2000 [in translation, revision of commissioned WDR background paper above].
- “Political Conditions for Agrarian Reform and Poverty Alleviation,” **Institute for Development Studies Discussion Paper 375**, June 2000. University of Sussex, Brighton, UK. [Revised version of above].
- “Political Conditions for Agrarian Reform and Poverty Alleviation,” **Background Paper for the World Development Report**, published on the World Bank’s Website April 2000.
- “Persistent Poverty and Path Dependency: Agrarian Reform Lessons from the United States and India,” **Institute for Development Studies Bulletin** 30:2, 1999 pp 13–22.
- “From Structural Conflict to Agrarian Stalemate: Agrarian Reforms in South India,” **Journal of Asian and African Studies** (Amsterdam), XXVI, 3–4 (1991).
- “Explaining Anomalies in Agrarian Reform: Lessons from Southwest India,” in Ray Prosterman and Mary Temple, eds., **Agrarian Reforms and Grassroots Development** (Boulder: Lynne Rienner 1990).
- “The Most Intractable Development Problem: The Rural Landless,” in H. Lamba, ed., **Rural**

**Development in India** (Chicago: IDS, 1986).

“Economic Consequences of Local Power Configurations in South Asia,” in Meghnad Desai, Susanne Rudolph, Ashok Rudra, eds., **Agrarian Power and Agricultural Productivity** (Oxford University Press, Delhi, 1984; University of California Press, Berkeley, 1985).

“Chayanovian vs. Neoclassical Perspectives on Land Tenure-Productivity Interactions,” E. Paul Durrenberger, ed. **Chayanov, Peasants, and Economic Anthropology** (New York: Academic Press 1984).

**Land to the Tiller: The Political Economy of Agrarian Reform in South Asia** (Yale University Press, 1983). Asian edition by Oxford University Press. Awarded the Edgar Graham Prize (London: 1986).

“Guaranteeing Employment to the Rural Poor: Social Functions and Class Interests in the Employment Guarantee Scheme in Western India,” (with Rex M. Edwards), **World Development** 11:7 1983.

“Embedded Production Relations and the Rationality of Tenant Quiescence in Tenure Reform,” **Journal of Peasant Studies** (London) 8:2 (January 1981).

“Abolition of Landlordism in Kerala: A Redistribution of Privilege,” **Economic and Political Weekly** XV:26 (June 1980). Revised summary reprinted, with permission, in **Land Tenure Center Newsletter** 67 (April/June 1980), University of Wisconsin–Madison.

“The Policy Logic of Land Reforms in Pakistan,” in M. Ahmed (ed.), **Contemporary Pakistan: Politics, Economy and Society** (Durham: Carolina Academic Press 1980).

“Zulfikar Ali Bhutto and the ‘Eradication of Feudalism’ in Pakistan,” **Comparative Studies in Society and History** 21:4 (October 1979). Revised version reprinted, with permission, in **The Economic and Political Weekly** (Bombay) XV:12 (March 1980).

“The Political Economy of Farm Mechanization Policy: Tractors in Pakistan,” (with Charles R. Kennedy) in Raymond Hopkins, Donald Puchala and Ross Talbot, (eds.), **Food, Politics, and Agricultural Development: Case Studies in the Public Policy of Rural Modernization** (Westview 1979).

“Share Tenancy and Economic Efficiency: The South Asian Case,” **Peasant Studies** 7:4 (Fall 1978).

“Political Conditions of Land Reform: Kerala and Maharashtra,” (with Henry C. Hart) in Robert E. Frykenberg (ed.), **Land Tenure and Peasant in South Asia**. (Orient Longman 1977).

“Land Tenure and Credit-Capital Tenure in Contemporary India,” in Robert E. Frykenberg (ed.), **Land Tenure and Peasant in South Asia** (Orient Longman 1977).

“The 1972 Land Reforms in Pakistan and Their Economic Implications,” (with M. Ghaffar Chaudhry), **Pakistan Development Review** 13.3 (Autumn 1974). Reprinted by Land Tenure Center, University of Wisconsin, Madison, No. 126, 1975.

“The Forgotten 1953 Paddy Lands Act in Ceylon: Ideology, Capacity and Response,” **Modern Ceylon Studies** III:2 (June 1974) (Reprinted in Center for Asian Studies, University of Texas–Austin, Reprint Series, No. 3, 1975).

### Political Ecology, Environmental Politics and Policy

- “Political Ecology from Landscapes to Genomes: Interests, Politics, Science” **Sage Handbook of Environment and Society**, ed Jules Pretty et al. London. 2007.
- “State Property Rights in Nature,” in John F. Richards ed., **Land, Property and the Environment** (Oakland, CA: Institute for Contemporary Studies 2002).
- “Authority and Scale in Political Ecology: Some Cautions on Localism,” in Louise E. Buck, Charles C. Geisler, John Schelhas, and Eva Wollenberg, eds. **Biological Diversity: Balancing Interests through Adaptive Collaborative Management**. (Boca Raton: CRC Press 2001).
- “Market-Structuring Regulation and the Ozone Regime: Politics of the Montreal Protocol,” in Timothy Mount and Mohammed Dore, eds, **Global Environmental Economics: Equity and the Limits to Markets** (Oxford: Blackwell 1999).
- “Nature, State and Market: Implementing International Regimes in India,” in Stig Toft Madsen, ed, **South Asian Environments in a State-Society Perspective** (Copenhagen and London: Nordic Institute of South Asian Studies and Curzon Press 1999; Delhi: Manohar 2003).
- “Celebrating the Local: Scale and Orthodoxy in Political Ecology,” in Goran Hyden, ed., **Governance Issues in Conservation and Development** (Gainesville: Conservation and Development Forum 1998).
- “Embedded Capacities: India’s Compliance with International Environmental Accords,” (with Erach Bharucha), in Edith Brown Weiss and Harold Jacobson, eds, **Engaging Countries: Strengthening Compliance with International Environmental Accords** (Cambridge: MIT Press 1998).
- “Common Property, Collective Action and Ecology,” (with Subir Sinha), **The Economic and Political Weekly**, Vol XXVIII, Nos 27–28 pp 1425–1433, July 1993.
- “Politics of Nature,” Harvard University **Center for Population and Development Studies Working Paper Series** Number 7 (Cambridge, October 1991).
- “Editor’s Introduction: Forests, Peasants and State,” in *Development Pressures and Ecological Constraints: The Sundarbans Coastal Forests of India and Bangladesh*, Special Issue of **Agriculture and Human Values** 7:2 1990.
- “Rethinking the Commons,” in *Development Pressures and Ecological Constraints: The Sundarbans Coastal Forests of India and Bangladesh*, Special Issue of **Agriculture and Human Values** 7:2 1990.
- “Resurrecting the Commons: Collective Action and Ecology,” **Items** (*Newsletter of the Social Science Research Council*, New York) December 1990.
- “Policy and Ecology in the Origins of Discontinuities in the Land Tenure System of the Hambantota District,” in S. W. R. de A. Samarsinghe (ed.), **Agriculture in the Peasant Sector of Sri Lanka** (Colombo: University Press 1976).

### Development

- “Suicide Seeds? Biotechnology Meets the Developmental State,” **India in Transition**

Center for the Advanced Study of India, University of Pennsylvania. December 17, 2007.  
<http://casi.ssc.upenn.edu/india/index.html>

- “Economic Crisis, Momentary Autonomy and Policy Reform: Liberalization in India, 1991–1995,” with N. Chandra Mohan. In Amita Shastri and A.J. Wilson, eds, **The Post-Colonial States of South Asia: Democracy, Development and Identity** (London: Curzon Press 2001).
- Embedded Particularism: India’s Failed Developmental State,” in Meredith Woo-Cumings, ed, **The Developmental State** (Ithaca: Cornell University Press 1999).
- “Explaining Sri Lanka’s Exceptionalism: Popular Responses to Welfarism and the ‘Open Economy,’” in John Walton and David Seddon, **Free Markets and Food Riots: The Politics of Global Adjustment** (Oxford: Basil Blackwell 1994).
- “Dilemmas of Organized and Unorganized Labor,” in Meenal Mamdani, ed., **Indian Development Since 1947** (Chicago: IDS, 1988).
- “The Dependent Welfare State: Nutrition, Entitlements and Exchange in Sri Lanka,” in Ladd Hollist and LaMond Tullis, eds., **Pursuing Food Security: International Political Economy Yearbook** Vol. III (Boulder: Lynne Rienner 1987).
- “Economic Liberalization Policies in Sri Lanka: International Pressures and Constraints,” in William Glade, ed., **State Shrinking: Privatization in Comparative Perspective** (Institute of Latin American Studies, University of Texas – Austin, 1986), and **Economic and Political Weekly** (Bombay) Vol XXII, No. 8, 1987.

### Ethnicity and Conflict

- Carrots, Sticks and Ethnic Conflict: Rethinking Development Assistance**, edited with Milton Esman. (Ann Arbor: University of Michigan Press, 2001).
- “Projects and Policies, Politics and Ethnicities,” with Milton Esman, in Esman and Herring, eds. **Carrots, Sticks and Ethnic Conflict: Rethinking Development Assistance**, Ann Arbor: University of Michigan Press, 2001.
- “Making Ethnic Conflict: The Civil War in Sri Lanka.” In Esman and Herring, eds. **Carrots, Sticks and Ethnic Conflict: Rethinking Development Assistance**, Ann Arbor: University of Michigan Press, 2001.

### Less Classifiable Publications

- “A Young Person’s Guide to Positivism,” **PS XIII:3** (Summer 1980).
- “Data As Social Product,” in Ravi Kanbur, ed, **Q-Squared: Combining Qualitative and Quantitative Methods in Poverty Appraisal** (New Delhi: Permanent Black 2003).
- “Whose Numbers Count? Resolving Conflicting Evidence on Bt Cotton in India.” *Q2 Working Paper 44*. November. Centre for International Studies, **University of Toronto, Q-squared Project: (Combining Qualitative and Quantitative Approaches in Poverty Analysis) [Error! Hyperlink reference not valid.]** 2007.



“Grounded Knowledge, Disciplinarity, and International Studies” **Connecting with Cornell** Vol 16 No 2. 2003.

“When Ballots Fail: The Bizarre Accession of George W. Bush to the Presidency of the United States,” **Frontline** Vol 18, No 1 January 2001.

“Reply to Michael Lipton,” **Journal of Commonwealth and Comparative Politics** (London) XXXIII: 3, 1985.

“Bt Cotton: Why Do So Many Smart People Get it So Wrong?” **The Hindu** Thursday, Aug 28, 2008.

“Miracle Seeds and Frankenfoods: What’s Science Got to Do With It?” **CyberTower Views and Reviews**, Videotaped presentation 3-22-04 posted to:

<http://cybertower.cornell.edu/Requester/v/reviewMain/hunger?topicitype=4>

“Death of Land Reform? New Issues, New Coalitions, Venerable Objectives” [www.id21.org](http://www.id21.org) 2002.

“Genetic Engineering, Conservation and Development,” **The Earth Times News Service**, November 20, 2001.

“Environmental Philosophies: How Sustainable Are They? On Ram Guha,” **The South Asia Newsletter** Cornell University Spring 2001.

“Property in Nature: Biotechnology, Conservation and Development,” **Cornell Environmental Update** Vol 2 No 3 2000.

“Guest Editorial: The Lessons of Early Capitalism,” **IDS Newsletter** 6:3 1989.

### **Work in Progress:**

**Suicide Seeds and Silver Bullets: Global Rifts and Grounded Politics of the GMO**

[title tentative], in process.

**Agrarian Origins of the “Kerala Model:” Land and Labor in South India** Completed manuscript, under revision.

### **ACADEMIC BACKGROUND:**

University of Wisconsin–Madison

Political Science, M.A., 1971; Ph.D., 1976

Fields: Empirical Theory and Methodology, Political Philosophy, Political Psychology/Sociology, Comparative Politics

Ph.D. Minor Fields: Economics, South Asian Studies

Dissertation: *Redistributive Agrarian Policy: Land and Credit in South Asia*

University of Texas–Austin, 1965–69, BA *Summa Cum Laude*

Special Honors in Economics; Plan II Honors

### **WORK HISTORY:**

**Cornell University:**

Professor of Government and International Professor of Agriculture and Rural Development, White Hall 313, Cornell University, Ithaca, NY 14853  
Fellow, Atkinson Center for a Sustainable Future

Faculty for the Major, Biology and Society

Internet [rjh5@cornell.edu](mailto:rjh5@cornell.edu)

Director, Mario Einaudi Center for International Studies 1996–2002;

John S. Knight Professor of International Relations

Director/Convener, *Program on Development, Governance and Nature*, Cornell University 2003–2008.

*Membership in PhD Fields at Cornell:* Asian Studies; International Development; Public Affairs; Government; International Agriculture and Rural Development; Conservation and Sustainable Development (minor field)

*Cornell University Extra-Departmental Positions (Representative)*

Acting Director, National Resource Center for South Asia (Title VI) and South Asia Program, 1992–93

Committee on *Ethical, Legal and Social Issues*, Cornell Genomics Initiative 1998–2005

Executive Committee, South Asia Program, 2008 – present

University Appeals Panel 1999–2004

Advisory Committee, *Cornell Poverty, Inequality and Development Initiative* 2002–present

Environmental Film Festival Advisory Committee, Founding Member

Advisory Board, Center for the Study of Inequality 2003–present

Governing Board, Cornell International Institute for Food, Agriculture and Development, 1996–2003

Provost's Task Force on the Social Sciences 1998–1999

International Planning Council, College of Agriculture and Life Sciences 1996–2003

Chair, Provost's Task Force on International Studies 2001

Iscol Environmental Fellow Committee, Center for the Environment, 2002–2012

International Student Financial Aid Working Group 2002

Faculty Advisor, ASHA-Cornell [student association promoting education for underprivileged children in India: [www.ashanet.org/cornell](http://www.ashanet.org/cornell)] 2003-2015.

Climate Change Focus Group of the Atkinson Center for a Sustainable Future (CCSF, <http://www.sustainablefuture.cornell.edu>); ACSF Faculty Fellow

Joint Team Leader, Institute for the Social Sciences Theme Project *Contentious Knowledge: Science, Social Science, and Social Movements*. 2006-2009.

[http://www.socialsciences.cornell.edu/theme\\_projects.html](http://www.socialsciences.cornell.edu/theme_projects.html)

Faculty Advisory Board, Atkinson Center for a Sustainable Future

Faculty, Biology and Society Major, 2014-present

Faculty, Science and Politics of the 'GMO' EdX/CornellX MOOC Fall 2016, Spring 2017. Archived.

Northwestern University, 1977–1991, Assistant, Associate and Full Professor, Department of Political Science; Vice Chair 1982–1985

Department of State, Agency for International Development, Development Studies Program, Washington, D.C., Lecturer: 1977–1979.

University of Washington–Seattle, Visiting Associate Professor, 1983

University of Chicago, Faculty Coordinator, *Graduate Workshop on South and West Asian Political Economy*, 1987–1988.

University of Wisconsin–Madison: Lecturer, Political Science and Land Tenure Center Fall 1975

University of Texas–Austin, Lecturer: Department of Economics 1975; Department of Government and Center for Asia Studies 1976

Community Service: City of Ithaca, *Natural Areas Commission*, 2004–2013.

### **Conference Papers and Lectures (Representative, Previous 10 years)**

*Politics of Transgenic Property in India: Biopiracy, Monopoly Power or Cottage Industry?* International Studies Association Annual Meetings, February 2007, Chicago.

Tianjin University of Finance and Economics, *Intellectual Property and Innovation in Agricultural Biotechnology*, Conference on Grassroots Innovations and Traditional Knowledge, Tianjin - China, May 31–June 2, 2007.

Cambridge University, BASAS, *Poor Choices: Dalit and Adivasi Electoral Politics in India*, with Tariq Thachil [lead author], March 29, 2007.

European Social Science History Conference (ESSHC) University of Lisbon, Portugal. *Poor Choices: Dalit and Adivasi Electoral Politics in India – Kerala and Gujarat*. With Tariq Thachil. February 2, 2008.

European Council for Political Research Joint Sessions, Sciences Politiques, Rennes: Workshop *The Politics of Intellectual Property* presentation of *Illicit Seeds: Intellectual Property and the Underground Proliferation of Agricultural Biotechnologies*. With Milind Kandlikar. April 14 2008.

*Whose Numbers Count? The Case of India's Bt Cotton*, International Consortium on Agricultural Biotechnology, *The Future of Agricultural Biotechnology: Creative Destruction, Adoption, or Irrelevance?* Ravello, Italy. June 12 2008.

International Centre for Ethnic Studies, Colombo, Sri Lanka, *Transnational Networks, Brokers and Social-Movement Organizations: Lessons of Reciprocal Risk from the “GMO,”* Coexistence in a Pluralistic Society August 7–9 2008.

*Cognitive Blockages, Politics, and Adaptability: Fallout from the Great EU U-Turn*, for the Workshop “Politics of Adaptation to Environmental Challenges in South Asia in the 21st Century” November 7–9 2008 Oslo, Norway.

University of California Berkeley “Whose Numbers Count?” *Conference on Biotechnology in Developing Countries*, January 23–24, 2009.

“Epistemic Warriors: Science, Democracy and the State,” *Six Decades of Indian Democracy: Achievements, Failures, Promises, Challenges*; Brown University, May 6–9, 2010.

“India’s New Gene Wars: The Cry 1Ac Once Again, with Different Outcomes,” *Science & Technology Studies Conference*, University of Texas, Austin, Texas May 13–16, 2010.

- “Class Politics: Euphemization, Voting and Power,” *University of Wisconsin-Madison*, October 10, 2011.
- “The Goldilocks Paradox of Bio-safety Regulation,” Conference *Changing Goals of Governance for Agricultural Genomics: An Examination of Current Regulatory and Intellectual Property Regimes*. University of British Columbia Law School and Department of Botany, Vancouver, Canada. November 17-18, 2011.
- “India’s New Gene Wars: Cotton to Brinjal,” Association for Asian Studies, Honolulu presented *in absentia* March 2011.
- “Re-Imagining Rural Development: The Agrarian Diversity Index,” [with Wendy Wolford, James McCarthy, Charles Geisler, Richard Stedman, Philip McMichael, David Kay, Gregory Alexander and Elisa Da Via, Beckman Institute for Advanced Science and Technology, University of Illinois at Urbana-Champaign; September 23-24, 2011.
- Keynote Address, International Land Conference, Institute of Social Studies, The Hague, The Netherlands *On Coalitions for Rural Justice: From Political Economy to Political Ecology of Land Reform*, January 12, 2006.
- Workshop Lecture, *Biotechnology and the Rural Poor*, International Land Conference, Institute of Social Studies, The Hague, The Netherlands, January 12, 2006.
- Princeton University, *Class Matters in Biotechnology*, May 8, 2006.
- Policy Research Institute, Ministry of Agriculture, Forestry and Fisheries, *Stealth Seeds: Bioproperty, Biosafety and Biopolitics*, Tokyo, Japan July 12, 2006.
- Ministry of Agriculture, Bangkok, Thailand *Biotechnology and Development*, July 19, 2006.
- National Center for Genetic Engineering and Biotechnology, Bangkok, Thailand. *Transgenics and the Poor*, July 20, 2006.
- Oxford University, University College, Global Economic Governance Programme, *Why Did Operation ‘Cremate Monsanto’ Fail? Class, Science, and Brokers*, 2 November. 2006.
- Syracuse University, *External Origins of Dictatorship and Democracy*, February 6, 2007.
- Harvard Center for European Studies Berlin, Wissenschaftszentrum Berlin für Sozialforschung, *Franken Foods and Suicide Seeds: Global Rift on Genetic Engineering*. June 18, 2007
- Columbia University, New York City, *Dead Sheep in Andhra: Suicide Seeds, Social Movement Politics and Authenticity Rents*, September 13, 2007.
- University of Pennsylvania, Center for the Advanced Study of India, *GMOs, NGOs, Science and the State*, February 20, 2008.
- The George Washington University, Institute for Global and International Studies, Washington, D.C. *‘GMO’: Authoritative Framing and its Discontents*. March 13 2008.
- Australian Centre for Plant Functional Genomics, *Framing the “GMO:” What Does Science Have to Do with Politics -- and Vice Versa?* Adelaide, Australia. November 27, 2008.
- Playing God? ‘GMOs’, Miracles and Monsters*, Bradley Forum, The Bob Hawke Prime Ministerial Centre, Adelaide, Australia December 2, 2008.
- Princeton University, *The David Bradford Seminars, Science Technology and Environmental Policy [STEP].* “The ‘GMO’ as Generative Frame: Global Networks, Contested Science, and Epistemic Brokers.” February 23, 2009.
- Oregon State University, *Food for Thought Lecture Series*, “Playing God? Monsters, Miracles, and the Politics of Genetic Engineering.” Corvallis, Oregon May 5, 2009.
- “Contentious Knowledge: Science, Social Science and Social Movements,” Oregon State University, Political Science Department, May 5, 2009.
- Pontifical Academy of Sciences, The Vatican, “Explaining Opposition to Transgenic

- Technologies,” May 18, 2009.
- Wageningen University, Mansholt Lecture, “Framing the GMO: Epistemic Brokers, Biosafety and Bioproperty,” Wageningen, The Netherlands, May 19, 2009.
- Delhi University, V.T. Krishnamachari Memorial Lecture, *Global Rifts over Biotechnology* December 2, 2009.
- Public Forum: ‘*GM Crops and Food Security*,’ India International Centre, New Delhi, December 3, 2009.
- Indian Statistical Institute, *Data as Social Product*, New Delhi, Dec 4, 2009.
- Gujarat Vidhyapeeth [University], Ahmedabad, Gujarat, "What Does India's Bt Cotton Experience Tell Us?" December 12, 2009.
- Keynote address, “Global Rifts on Biotechnology,” conference on ***Modern Biotechnology in Agriculture***, Trivandrum, Kerala, India. December 14-15, 2009.
- “Stealth Seeds: Bioproperty, Biosafety, Biopolitics,” *The Institute for Global and International Studies*, The Elliot School for International Studies, The George Washington University, April 30, 2010.
- “Biotechnology, Property and the State: What We Learn from India’s First Transgenic Crop,” *The Johns Hopkins University*, April 13, 2010.
- “State Science and its Discontents,” *University of Sussex, Institute for Development Studies: Social, Technological and Environmental Pathways to Sustainability (STEPS) Centre*. December 9, 2010.
- Cambridge University, Department of Politics*, “State Science and its Discontents: Why India's Second Transgenic Crop Did Not Follow the Path of Bt Cotton,” Cambridge, UK. December 13, 2010.
- “Global Rifts over Biotechnology: Science, Politics and Political Science,” Union College, Feb 9 2011.
- University of British Columbia, Liu Center for Global Affairs, “State Science and its Discontents,” March 21, 2011.
- “How do ideas have power?” School for International Studies, Simon Fraser University, Vancouver, March 22, 2011.
- School of Environmental and Biological Sciences, Rutgers University “Cotton to Brinjal: Political Puzzles,” *Symposium on Political Economy of Agricultural Biotechnology in India*, May 2011.
- University of Wisconsin Law School, “Global Biotech: Revival of the Developmental State, Emergence of the Panopticon,” Madison, Wisconsin. May 2011.
- “How Do Ideas Have Power?” *Liceo Scientifico Fondazione Sacro Cuore Milano*, Italia. December 1, 2011.
- “Conjuncture of the Dystopian Welfare State and the National Security State in Works of Stig Larsson,” for the Roundtable *Gendered Politics of the Welfare State*. Roundtable, Southern Political Science Association Annual Meetings, New Orleans. January 7, 2011.
- American Political Science Association Annual Meetings*, Chair, Panel on “Interests, Institutions and Policies in Motion: Understanding India’s Growth Story,” Seattle, Sept. 1, 2011.
- University of Milan, Italy. Department of Biology, Plant Physiology and Biochemistry. “Science, Politics, Political Science: Framing Genetic Engineering,” 12-2-2011.
- Indian National Science Congress*, “Political Science on the Politics of Science,” Bhubaneswar, India. January 7, 2012.

- Global Ethics in Science and Technology*, Discussant, National Science Congress, Bhubaneshwar, India. January 7, 2012.
- Keynote Address “Politics of Science and the Science of Politics: Why is Agricultural Biotechnology So Vulnerable?” *Biotechnology in Indian Agriculture: Potential Performance and Concerns*, Hyderabad India Center for Economic and Social Studies. January 18, 2012.
- India Society for Plant Biochemistry and Biotechnology, “Can There Be a Robust Social Science of Science? Regulation and Politics in Biosafety Regimes,” *International Conference on Plant Biotechnology: New Frontiers*, National Agricultural Science Centre, New Delhi Feb 21-24 2012.
- “Politics of Science: Understanding Divergent Outcomes in Agricultural Biotechnology,” *Conference on Biotech Crops and Food Security in India* FBAE Bangalore February 27, 2012.
- “NGOs, GMOs, Science and the State,” Syracuse University, April 10, 2012. Syracuse, New York.
- National Academy of Engineering (NAE) Regional Conference *Toward a Sustainable Future* Lecture: “What’s Science Got to Do with It? Politics of Sustainability,” Ithaca NY May 16, 2012.
- Weizmann Institute of Science, “Leveraging Small Numbers in Social Mobilization: Contrasting Cases of Transgenics in India,” Rehovot, Israel May 22, 2012.
- University of Nairobi, College of Biological and Physical Sciences, Centre for Biotechnology and Bioinformatics, National Biotechnology Stakeholders Workshop “A Decade of Bt Cotton ... and a Bt Puzzle,” June 8, 2012. Nakuru, Kenya.
- Harvard India Conference, Speaker, ‘Rural India: Technology.’ March 9 2013.
- Munich Technical University *State Science and its Discontents* June 11, 2013, Munich, Germany.
- University of California Agriculture and Natural Resources Statewide Conference, Speaker April 9-11, Ontario, California.
- “Biopolitics: Italy, The EU and the World,” Cornell in Turin, Torino, Italy. June 14, 2013.
- Foundation for Agrarian Studies, Tenth Anniversary Conference “Farmer Interests in Biotechnology,” January 9-12, 2014. Kochi, Kerala, India.
- “What Can *Social Science* Say about the Variable Role of Science in Policy?” Mahyco Seminar, Dawalwadi, Maharashtra, India, January 17, 2-14.
- Delhi University, Institute of Economic Growth, ‘The Ideational Turn in the Political Economy of Food.’ January 21 2014. New Delhi.
- Nehru Museum and Memorial Library, “State Science and National Specificity,” January 22, 2014. New Delhi, India.
- University of Florida, Gainesville, *Biotechnology Literacy Project and the Future of Food*, June 15-17, 2014.
- Claremont McKenna College, “*Genes in the Food! What’s At Stake in Global Battles over Genetic Engineering?*” Athenaeum Theater, September 29, 2014. Claremont, California.
- “What’s Science Got to Do With It? Sustainable Agriculture and the Environment,” Department of Environmental Studies & Sciences, Ithaca College. November 3 2014.
- Indian Statistical Institute, Workshop on “The Economics and Politics of GM Food Regulation and Policy,” New Delhi December 3, 2014.

- Rutgers University, School of Environmental and Biological Sciences, Templeton Foundation Symposium and Workshop, *Genetically Modified Food Crops in Asia and Africa: Opportunities, Barriers and Constraints* Sep 18-19, 2014.
- “The Goldilocks Paradox of Risk and Regulation: Knightian Uncertainty, State Science and Policy Under Popular Sovereignty,” International Food Policy Institute and University of Delhi Conference on *Innovation in Indian Agriculture* December 4-5, 2014, India International Center, New Delhi, India.
- Genome Canada, College of Reviewers, Presentations on Ethical/Legal/Social/Environmental Impact of Genetically Engineered Crops. Toronto. Canada. May 27 2015.
- Council for European Studies, 22<sup>nd</sup> Conference of Europeanists, Panel Chair: “Genetically Modified Organisms and the EU: Politics, Regulation, Social Movements,” Presentation: Why the EU is Not the US.” July 9, 2015. Paris, France.
- University of Wisconsin, Madison, Conference on South Asia, Panel Chair and Discussant, *India’s Open Economy Capitalism*, October 23, 2015.
- Princeton University, Woodrow Wilson School, “*Environment, Sustainability and Development: State, Market, Science, Movements*.” November 23, 2015.
- University of Maryland, Eastern Shore, ‘Political Puzzles of the GMO: *It’s not about the science*,’ Inaugural Symposium: Launch of the Agribusiness Management Center October 12 2016.
- University of Wisconsin, Madison, Conference on South Asia, *Revisiting the Role of the Indian State in Contemporary Capitalist Development*, Chair/Discussant October 22, 2016.
- “Fake News, Post Truth, Epistemic Networks,” Workshop *Politics of Anti-Science*, Foundation for Agrarian Studies, Bangalore University Campus, India. January 25, 2017.
- Keynote Address, “It’s Not About the Science,” One-Day Biotechnology Conference, MES College, Bangalore University. January 28, 2017.
- Indian Statistical Institute, Bangalore, “Explaining Variance in Global Biotech Diffusion.” January 27, 2017.
- Invited Discussant, All-Party Parliamentary Committee on Health and Nutrition, House of Lords, London. February 8, 2017.
- University of London, School of Oriental and African Studies, “Political Puzzles in Science Politics: The Post-Truth Dispensation,” February 9, 2017.
- New York University, School of Journalism, “Reporting Science in the Fake News Era.” March 9, 2017.
- Zeppelin University, 1) “Why Do Countries Differ in Food Politics?” 2) “It’s Not About the Science.” Friedrichshafen, Germany. April 20, 2017.
- Cochran Fellows Program, University of Maryland Eastern Shore, “Why Do Countries Vary in Biotech Acceptance?” May 11, 2017.
- University of California – Berkeley. International Consortium on Applied Bio-economy Research. “*Regulatory Logics and Politics of Agricultural Biotechnology Diffusion: The End of ‘the GMO Debate.’*” June 2, 2017
- University of California – Berkeley. CRISPRcon: Science, Society, and the Future of Gene Editing. Convener of ‘Regulatory and Property Implications for Agriculture.’