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Blue and Gold Distinguished Professor of Energy and the Environment
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COUNTRIES OF CITIZENSHIP:

United States of America (by birth) and Pakistan (by parental lineage); Australian (by naturalization)

EDUCATION:

- 2000 *Massachusetts Institute of Technology*, Cambridge MA, USA: Ph.D. in Environmental Planning, Department of Urban Studies and Planning, Dissertation title: "Environmental Resistance and Aboriginal Development: A Comparative Study of Mining Ventures in the United States and Canada." Advisor: Professor Lawrence Susskind. Committee members: Professor Joseph Kalt (Harvard, Kennedy School of Govt.), Professor Paul Carlile (MIT, Sloan School of Management).
- 1996 *Yale University*, New Haven, CT, USA: Masters of Environmental Studies. Focus: Industrial Environmental Management and International Development. Thesis: *Water and Diamonds: Resource Scarcity and Environmental Degradation in Southern Africa*. Advisor: Professor Daniel Esty.
- 1994 *Tufts University*, Medford, MA, USA: Bachelor of Science, *summa cum laude*. Majors: Chemistry and Environmental Studies.
- 9/1992 -- 6/1993 *University College London*, London, UK: Junior Year Abroad, Chemistry and Ecology.
- 6/1992 -- 8/1992 *Center for Rainforest Studies*, Queensland, Australia (Administered by the School for Field Studies, Beverly MA). Applied field research course on "Tropical Reforestation." Interviewed farmers, analyzed water and soil samples on farms to prepare a report on the success of reforestation in the Lake Tinaroo catchment, Queensland, Australia.
- 9/1986 --5/1990 Secondary Schooling at *Aitchison College*, Lahore, Pakistan. Received School Certificate with honors under the auspices of *The University of Cambridge International Examinations Syndicate (UK)*.

WORK AND RESEARCH EXPERIENCE:

- 9/2016 – present **University of Delaware, USA**
Blue and Gold Distinguished Professor of Energy and the Environment. Tenured in Department of Geography, College of Earth, Oceans and the Environment. Joint appointment with Energy and Environmental Policy Program at the Joseph R. Biden School of Public Policy and Administration.
- 7/2012 - present **University of Queensland, AUSTRALIA**
Affiliate Professor of Sustainability Science and Policy. Chair in Sustainable Resource Development inaugurating the United Nations Sustainable Development Goals (2015 – 2016), Director, Centre for Social Responsibility in Mining (2012-2015), University of Queensland, Professor with affiliation in the Sustainable Minerals Institute and the School of Political Science and International Studies including the Rotary Centre for International Studies in Peace and Conflict Resolution (2012 – present)
- 9/2002 - present **University of Vermont, Burlington VT, USA**
Director of the Institute for Environmental Diplomacy and Security (James Jeffords Center), Adjunct Professor 2014- present; Professor (tenured) of Environmental Studies (2010 – 2014); Associate Dean for Graduate Education (2006-2008), Associate Professor of Environmental Planning and Conflict Resolution (March 2006 – May 2010), previously, Assistant Professor (9/2002 – 2/2006): Rubenstein School of Natural Resources. Teaching courses on research methodology, environmental conflict resolution, environmental peace movements, industrial ecology and environmental policy, planning and development. Appointments in Environmental Program and Asian Studies Program.
- 9/2016 – present **Columbia University, New York NY, USA**
Senior Fellow at Columbia Center on Sustainable Investment, A joint initiative between the Earth Institute and Columbia Law School
- 9/2016 – present **Georgetown University, Washington DC, USA**
Senior Fellow at Center for Australia, New Zealand and Pacific Studies at the School of Foreign Service
- 12/2000– 2011 **Brown Univ., Watson Institute for International Studies, Providence RI, USA**
Adjunct Faculty: Taught courses on environmental planning, and environmental conflict resolution (to UNEP Fellows from developing countries at the Thomas J. Watson Institute for International Studies, funded by the Luce Foundation).
- 6/2000 – 4/2002 **Industrial Economics Incorporated, Cambridge MA, USA**
Environmental Associate: Working on various projects related to environmental impact assessment, natural resource damage assessment and policy evaluation for clients in the public and private sectors. Leading the development of a practice area within to firm to focus on natural resource damage assessments on Native American reservations.
- 8/1998 – 8/1999 **ENSR Corporation, Acton MA, USA**
Environmental Consultant: Preparing international industrial audit protocols and social

impact assessment documents for Environmental Health and Safety

Summer, 1998

Harvard Business School, Boston MA, USA

Baker Foundation Research Fellow: Researched and wrote two teaching cases on corporate/community negotiations in the mining industry.

9/1997 – 2000

Massachusetts Institute of Technology, Cambridge MA, USA

Teaching Fellow and Instructor

Courses:

- ENVIRONMENTAL POLICY AND REGULATION: Teaching assistant
- QUANTITATIVE METHODS IN REASONING (Basic statistics course for planners): Teaching fellow
- TECHNICAL WRITING: Independently teach a technical writing practicum course to chemical engineering students.

7/1996 -- 8/1997

General Electric Company, Plastics Division (GE)

Technical Leadership Program Associate and Environmental Engineer: Plastics Divisions, Based at GE's silicones manufacturing site in Waterford NY, USA and the GE Research and Development Center, Schenectady, NY, USA. Coordinated pollution prevention programs. Training in management of technology, environmental auditing and statistical methods for quality control.

Summer, 1995

General Electric Company, Corporate Environmental Programs

International Environmental Management Intern, Corporate Headquarters, Fairfield CT: Designed and prepared environmental health and safety audit protocols for GE operations in UK, Mexico, Turkey, Spain and Indonesia.

9/1994 -- 5/1996

Yale University, School of Forestry and Environmental Studies, New Haven CT, USA

Teaching Fellow in Environmental Chemistry: Coordinated and assisted in the teaching of two graduate courses with Professor Gaboury Benoit and Dr. Shimon Cohen-Anisfeld: Environmental Chemistry of Pollution & Environmental Organic Chemistry.

1/1994 -- 8/1994

Global Development and Environment Institute, The Fletcher School of Law & Diplomacy, Tufts University, Medford MA, USA.

Research Assistant for a six volume publication project: *Frontier Issues in Economic Thought*. Conducted bibliographic research for volumes on "Ecological Economics," "Advertising and the Environment" and "The Consumer Society."

1/1993 -- 6/1993

British Parliament (House of Commons), UK

Parliamentary Intern: Prepared press releases; researched material for environmental debates in parliament; responded to constituency correspondence and public relations.

4/1992

Smithsonian Institution, Museum of Natural History, Washington DC, USA.

Natural History Research Training Associate, Washington DC, USA: Identified and documented various plant taxa from Cameroon with Dr. Robert Faden

9/1990 -- 5/1992 **Institute for Global Communication, Medford MA, USA.**

Network Writer, Global Action and Information Network. (Administered by the *Institute for Global Communication*, San Francisco CA). Prepared computerized conferences on environmental themes for an interactive computer network. Topics on which informational papers were written on-line include: Antarctica, Ocean Pollution and Wastewater.

LANGUAGES:

English (fluent at all levels); Urdu (fluent at all levels), Punjabi (fluent at all levels), Arabic and Persian (reading ability), French and Spanish (elementary)

PUBLICATIONS: (chronologically within each category)

Peer reviewed Authored Books

Susskind, Lawrence and Saleem H. Ali *Environmental Diplomacy: Negotiating Effective International Agreements* (second edition). New York and Oxford: Oxford University Press, October, 2014.

Ali, Saleem H. *Treasures of the Earth: Need, Greed and a Sustainable Future*. New Haven and London: Yale University Press, 2009 (paperback edition, Fall, 2010, cover endorsement from Nobel laureate Muhammad Yunus).

Ali, Saleem H. *Islam and Education: Conflict and Conformity in Pakistan's Madrassahs*. Oxford University Press, 2009.

Ali, Saleem H. *Mining, The Environment and Indigenous Development Conflicts*. Tucson: University of Arizona Press. 2004 (paperback edition published in fall 2009).

Peer-reviewed anthologies

Ali, Saleem H., Nina Collins and Kathryn Sturman. Eds. *Africa's Mineral Fortune: The Science and Politics of Sustainable Mining Development*. London: Routledge, 2018.

Clifford, Martin, Robert Perrons, Saleem H. Ali and Tim Grice. *Extracting Innovation: Mining, Energy and Technological Change in the Digital Age*. Boca Raton FL: CRC Press, May, 2018.

Pincus, Rebecca and Saleem H. Ali eds. *Diplomacy on Ice: Energy and the Environment in the Arctic and Antarctic*. Yale University Press, January 2015 (Foreword by J. Gustave Speth, former head of UNDP and founder of WRI and NRDC).

O'faircheallaigh, Ciaran and Saleem H. Ali eds. *Earth Matters: Indigenous Relations in the Mining Industry*. Sheffield UK: Greenleaf Publications, 2008.

Ali, Saleem H. ed. *Peace Parks: Conservation and Conflict Resolution*. Cambridge and London: The MIT Press. 2007 (foreword by Julia Marton-Lefevre, Director General IUCN).

Select Journal Articles

- Levin, N., Ali, S., Crandall, D. & Kark, S. World Heritage in danger: Big data and remote sensing can help protect sites in conflict zones. *Global Environmental Change* **55**, 97–104, 2019. Refereed Article
- Sonter, Laura, Saleem H. Ali and James Watson “Mining and Biodiversity: Key Issues in Conservation Science.” *Proceedings of the Royal Society B*, December, 2018 Refereed Article
- Ali, Saleem H. “The material science imperative in the sustainable development goals.” *Nature Materials Vol 17*, pages1052–1053 (2018). Invited article
- Ali, Saleem H. and J.P. de Oliveira. “Pollution and Economic Development: An Empirical Research Review.” *Environmental Research Letters*, Published online November 8, 2018. Refereed Article
- Ali, Saleem H. 2018. “Extracting at the Borders: Negotiating Political and Ecological Geographies of Movement in Mineral Frontiers.” *Sustainable Development* **26** (5): 481–90. Refereed Article
- Huda, Mirza Sadaqat and Ali, Saleem H. (2018). “Environmental peacebuilding in South Asia: establishing consensus on hydroelectric projects in the Ganges-Brahmaputra-Meghna (GBM) Basin.” *Geoforum* **96** 160-171. Refereed Article
- Petersen, Micah, and Saleem Ali. 2018. “Chinese Migrant Perceptions of Africans: Understanding Confucian Reflexive Politics in Southern Africa.” *Social Sciences* **7** (10): 172. <https://doi.org/10.3390/socsci7100172>. Refereed Article
- Cartier, Lauren, Saleem H. Ali and Krzemnicki, Michael S. “Blockchain, Chain of Custody and Trace Elements: An Overview of Tracking and Traceability Opportunities in the Gem Industry.” *Journal of Gemmology* 2018, Vol. 36 Issue 3, p212-227. 16p Refereed article
- Levin, Noam, Saleem H. Ali and David Crandall. 2018. “Utilizing remote sensing and big data to quantify conflict intensity: The Arab Spring as a case study. *Applied Geography*, **94**:1-17, 2018. Refereed article
- Hancock, Linda, Natalie Ralph and Saleem H. Ali. 2018. “Bolivia’s Lithium Frontier: Can public private partnerships deliver a minerals boom for sustainable development? *Journal of Cleaner Production* **178**:551-560, 2018. Refereed article
- Franco, Isabel Buitrago, Jose Antonio Oliveira and Saleem H. Ali. 2018. “Peace with Hunger: Colombia’s Checkered History with Post-conflict Sustainable Community Development in Emerald Mining Regions.” *Sustainability* **10**(2):504, 2018. Refereed Article
- Ossa-Moreno, Juan, McIntyre, Neil, Ali, Saleem H. Ali et al. 2018. The Hydroeconomics of Mining. *Ecological Economics*, **145**: 368-379. Refereed article
- Huda, Mirza S. and Saleem H. Ali. 2017. Energy diplomacy in South Asia: beyond the security paradigm in accessing the TAPI pipeline project. *Energy Research and Social Science*, **34** 202-213. Refereed Article
- Ali, Saleem H. et al. 2017. Mineral supply for sustainable development requires resource governance.” *Nature* **543**:367-372. Refereed Article

Ali, Saleem H. 2017. "The ecology of diamond sourcing: from mined to synthetic gems as a sustainable transition." <i>Journal of Bioeconomics</i> 19:115-126.	Refereed Article
Ali, Saleem H. 2017. "Reconciling Islamic Ethics, Fossil Fuel Dependence, and Climate Change in the Middle East." <i>Review of Middle East Studies</i> 50(2): 172-178. (Cambridge University Press).	Refereed article
Ganbold, Misheelt and Saleem H. Ali. 2017. The peril and promise of resource nationalism: A case analysis of Mongolia's mining development. <i>Resources Policy</i> 53:1-11.	Refereed Article
Kim, Rakhyun and Saleem H. Ali. 2016. "Green Diplomacy in North Korea: An Opportunity for Peace-building?" <i>Environmental Policy and Law</i> vol. 46, no. 1, pp. 77-96, 2016.	Refereed Journal Article
Ali, Saleem H. 2016. "The Ethics of Space and Time in Mining Projects: Matching Technical Tools with Social performance." <i>Journal of Business Ethics</i> , 135:645-651, 2016.	Refereed Article
Mori, Renzo. Daniel Franks and Saleem H. Ali. 2016. "Evaluating the Efficacy and Adaptability of Certification Schemes in the Extractive Industries. <i>Corporate Governance</i> . Vol. 16(3), 2016, pp. 579-592,	Refereed Journal submission
Smith, Nicole, Saleem Ali, Nina Collins and Carmel Bofinger. 2016. "Human Health and Safety in Artisanal and Small-Scale Mining: An Integrated Approach to Risk Mitigation." <i>Journal of Cleaner Production</i> 129:43-52, 2016.	Refereed journal submission
Horsley, Julia, Sarah Prout, Matthew Tonts, and Saleem H. Ali. 2015. "Sustainable Livelihoods and Indicators for Regional Development in Mining Economies." <i>The Extractive Industries and Society</i> 2 (2): 368-80.	Refereed Journal Article
Huang, Ganlin, and Saleem Ali. 2015. "Local Sustainability and Gender Ratio: Evaluating the Impacts of Mining and Tourism on Sustainable Development in Yunnan, China." <i>International Journal of Environmental Research and Public Health</i> 12 (1): 927-39.	Refereed Journal Article
Makki, Muhammad, Saleem H. Ali, and Kitty Van Vuuren. 2015. "Religious Identity and Coal Development in Pakistan": Ecology, Land Rights and the Politics of Exclusion." <i>The Extractive Industries and Society</i> 2 (2): 276-86. doi:10.1016/j.exis.2015.02.002.	Refereed Journal Article
Franks, Daniel, Rachel Davis, Anthony Bebbington, Saleem H. Ali, Deanna Kemp and Martin Scurrah, (2014) Conflict translates environmental and social risk into business costs. <i>Proceedings of the National Academy of Sciences of the United States of America (PNAS)</i> , vol. 111 no. 21, 2014.	Refereed Journal Article
Keir, Laura and Ali, Saleem H. "Rapid conflict assessment in energy infrastructure siting: Prospects for consensus building in the Northern Pass transmission line project?" <i>Negotiation Journal</i> , (published by the Program on Negotiation at Harvard Law School). Volume 30, Issue 2, pp. 169-189, 2014.	Refereed Journal Article
Ali, Saleem H. and Rebecca Pincus, "Treaties" in <i>Oxford Bibliographies on</i>	Refereed

<i>Environmental Science</i> . Published online 2015.	bibliography
Ali, Saleem H. "Social and Environmental Impact of Rare Earth Industries." <i>Resources</i> , 3(1):123-134., 2014	Refereed Article
Griffin, Pamela and Saleem H. Ali, "Managing transboundary wetlands: the Ramsar Convention as a means of environmental diplomacy." <i>Journal of Environmental Studies and Science</i> , Volume 4, Issue 3 , pp 230-239, 2014	Refereed Journal Article
Golev, Artem, Scott, Margaretha, Erskine, Peter D., Ali, Saleem H. and Ballantyne, Grant R. (2014) Rare earths supply chains: current status, constraints and opportunities. <i>Resources Policy</i> , 41 1: 52-59.	Refereed Article
McClellan, Benjamin, Glen Corder and Saleem H. Ali. "Sustainability of Rare Earth Minerals." <i>Minerals</i> , 3(3), 304-317, 2013.	Refereed Article
Cartier, Laurent and Saleem H. Ali. "Pearl Farming as a Sustainable Development Path." <i>Solutions Journal</i> , Vol. 3 Issue 4, 2012.	Referred Article
Huang, Ganlin, Weiqi Zhou and Saleem H. Ali. "Spatial patterns and economic contributions of mining and tourism in biodiversity hotspots: A case study in Yunnan China" <i>Ecological Economics</i> , Vol. 70, Issue 8, 2011, pp. 1492, 1498.	Refereed Article
Puppim de Oliveira, Jose Antonio, and Saleem H. Ali. Gemstone mining as a development cluster: A study of Brazil's emerald mines. <i>Resources Policy</i> vol 36, Issue 2, pp. 132-141. 2011.	Refereed Article
Ali, Saleem H. "Mining in China: A Primary Ecological Concern," Washington DC: Woodrow Wilson International Center for Scholars, <i>China Environment Forum</i> Issue 10, June, 2009	Academic policy journal
Ali, Saleem H. "Water Politics in South Asia: Transitioning from technocratic cooperation to lasting security" <i>Journal of International Affairs</i> , Vol.61, No. 2, 2008	Academic policy journal
Ali, Saleem H. and Ciaran O'Faircheallaigh. "Extractive Industries, Environmental Performance and Corporate Social Responsibility." Special guest edited issues 52-53 of <i>Greener Management International</i> , October – December, 2007	Refereed Journal
Costanza, Robert, Brendan Fisher, Saleem Ali et al. Quality of life: An approach integrating opportunities, human needs, and subjective well-being. <i>Ecological Economics</i> 61, no. 2 (March, 2007): 267-276.	Refereed Article
Li, Wenjun and Saleem Ali. "Simulated Property Rights and Grassland Degradation: A Case Study of Xilingol Biosphere Reserve, Inner Mongolia of China." <i>Journal of Environmental Management</i> , Vol 85:2, pp. 461-70, 2007.	Refereed article
Ali, Saleem H. "Gold Mining and the Golden Rule: A Challenge for Consumers in Developing Countries." <i>Journal of Cleaner Production</i> . (Elsevier), Vol. 14, No. 3-4, 2006, 15pp.	Refereed Article
Khagram, Sanjeev and Saleem Ali. "Environmental Security." <i>Annual Review of</i>	Refereed

<i>Environment and Resources</i> , September, 2006, 25pp.	Article
Ali, Saleem H. and Andrew Singh Grewal "The Ecology and Economy of Indigenous Resistance: Divergent Perspectives on Mining in New Caledonia." <i>The Contemporary Pacific</i> (University of Hawaii Press), Summer, 2006. 49pp.	Refereed Article
Ali, Saleem H. and Robert Barsky eds. Beyond the Ivory Tower: the trials and triumphs of popular academics. Special issue of the refereed open-source e-journal <i>Ameriquests</i> . Vol. 3, No. 2. 2006. Available online at: http://ejournals.library.vanderbilt.edu/ameriquests/viewissue.php	Refereed e-journal issue
Yelpaala, Kaakpema and Saleem Ali. "Multiple scales of diamond mining in Akwatia, Ghana: addressing environmental and human development impact." <i>Resources Policy</i> , 2005 Vol. 30 (145-155).	Refereed Article
Ali, Saleem H. "Environmental Planning and Cooperative Behavior." <i>Journal of Planning Education and Research</i> , Vol 23, No. 2, 2003, 12pp.	Refereed Article
Ali, Saleem H. and Larissa Behrendt ed. <i>Mining and Indigenous Rights: Can Impacts and Benefits be Reconciled?</i> Guest editor for a special issue of the <i>Cultural Survival Quarterly</i> , April, 2001. Authored introduction to articles and an overall introduction. 120pp.	Journal issue
Ali, Saleem H. "Ecological Themes in Islam and Islamic Societies." <i>Islamica</i> (published by the London School of Economics, UK), Spring, 1998. 10pp.	Refereed Article
Ali, Saleem H. <i>Cameco Corporation. A Case Study in Corporate/Community Negotiations</i> . Boston MA: Harvard Business School case 5-899-285, May, 1999. 45pp.	Refereed Teaching case
Ali, Saleem H. <i>WMC: Olympic Dam Copper-Uranium Mine: A Case Study of Aboriginal Interactions with a Mining Company</i> . Boston MA: Harvard Business School, 5-899-285, May, 1999. 55pp.	Refereed Teaching case
Ali, Saleem H. and Victoria Guisinger. <i>Land Tenure and Environmental Management in Namibia</i> . Yale School of Management Case Study, August, 1997.40pp.	Refereed Teaching case
Ali, Saleem H. "Pakistan's Environmental Predicament." <i>Hemispheres: The Tufts Journal of International Affairs</i> , Spring, 1994. 30pp.	Student refereed Article

Peer reviewed Book Chapters

Ali, Saleem H. and Mirza Sadaqat Huda. "Energy Politics in Asia." Chapter in Oxford Handbook of Energy Politics. Under contract for publication in 2019.

Grasso, Domenico and Saleem H. Ali. "Water and Global Development Goals: The Role of Engineering and Social Science in Meeting International Policy Outcomes." *Wiley Encyclopedia of Water*. Expected publication in 2019.

Ali, Saleem H. "A casualty of peace? Lessons on demilitarizing conservation in the Cordillera del Condor." Chapter in Todd Lookingbill and Peter Smallwood *Collateral Values of Natural Capital*. Expected publication, Springer, 2019.

Ali, Saleem H. "The Social Ecology of Artisanal Mining: Between Romanticism and Anathema." In Lahiri-Dutt ed. *Between the Plough and the Pick: Informal, Artisanal and Small-scale Mining in the*

Contemporary World. Canberra: Australian National University Press, 2018 – available online at: <https://press.anu.edu.au/publications/between-plough-and-pick>

Ali, Saleem H. and Rebecca Pincus. “The Role of the Military in Environmental Peace-building.” In Ashok Swain ed. *Routledge Handbook of Environmental Conflict and Peace-building*. New York and London: Routledge, 2018.

Walters, Todd and Saleem H. Ali. “Borders as Zones of Experiential Learning: The Case of the Balkans Peace Park Initiative.” In Anna Grichting and Michele Zebich-Knoss ed. *The Social Ecology of Border Landscapes*. New York and Delhi: Anthem Press, May, 2017.

Ali, Saleem H. and Todd Walters, “Experiential Environmental Education as a Peace-building Process.” In *Peace Ethologies: Behavioral Processes and Systems of Peace* Peter Verbeek and Benjamin A. Peters, Eds. New York: John Wiley, 2018.

Ali, Saleem H. Reflections on Environmental-peacebuilding in Diana Walters, Daniel Laven and Peter Davis eds. *Heritage and Peacebuilding*. Bognor Regis: UK: Boydell and Brewer, distributed by John Wiley, 2017.

Ali, Saleem H. and Mirza Sadaqat Huda. “Constructive Consumption: Corporate Leadership in Bridging Livelihoods and Conservation in Democratic Societies.” In Gabriel Eweje and Ralph Bathurst eds. *CSR Sustainability and Leadership*. London: Routledge, 2016.

Ali, Saleem H. (2015). Power and peace: how nations can go nuclear without weapons. In John Watson (Ed.), *Politics, policy & the chance of change* (pp. 22-29) Melbourne, VIC, Australia: Melbourne University Press.

DeGeorges, Damien and Saleem H. Ali. “Connecting China through ‘Creative Diplomacy’: Greenland, Australia, and Climate Cooperation in Polar Regions.” In Rebecca Pincus and Saleem H. Ali eds. *Diplomacy on Ice: Energy and the Environment in the Arctic and Antarctic*. Yale University Press, 2015.

Ali Saleem H. and Julia Keenan, “Awkward Alliances: Environmentalism as a bonding agent between indigenous and rural settler politics in America and Australia” in Alan Tidwell ed. *Sacred Earth: Indigenous People, Land and Conflict*. New York NY; Routledge, 2015.

McClelland, Benjamin, Glen Corder, Saleem H. Ali and Artem Golev. “Rare metals, unconventional sources and sustainability.” In Greg Wessel et al eds. *Geosciences for the Public Good and Global Development: Towards a Sustainable Future*. Geological Society of America. 2015.

Ali, H. Saleem and Nawaz, Shuja (2014). Pakistan’s ecological precipice: An opportunity for redefining security. In David Reed (Ed.), *In pursuit of prosperity: U.S foreign policy in an era of natural resource scarcity* (pp. 280-300) New York, United States: Routledge.

Ali, Saleem H. “Transboundary Conservation through hybrid partnerships: a comparative analysis of forest projects.” In Vasquez-Brust, Diego et al eds. *Collaboration for Sustainability and Innovation in the Global South*. Springer, 2013.

Ali, Saleem H. and Mary Watzin, “Science and Spatial Security: Building Peace through Environmental Cooperation in Southern Europe.” in Rita Floyd and Richard Matthews *Environmental Security: Approaches and Issues*, London: Routledge, 2013.

Ali, Saleem H. and Mary Ackley, “Foreign Investment and Environmental Justice in an Island Economy Mining, Bottled Water, and Corporate Social Responsibility in Fiji,” in Julian Agyeman and JoAnn Carmin, *Environmental Inequalities Beyond Borders Local Perspectives on Global Injustices*. Cambridge MA: MIT Press, 2011.

Ali, Saleem H. "Environmental Cooperation in the Indian Ocean Basin." In Timothy Doyle ed. *Crucible of Survival: Environmental Security in the Indian Ocean*. New Brunswick NJ: Rutgers University Press, 2008

Khagram, Sanjeev and Saleem H. Ali. "Transnational Transformations: From Government-Centric Inter-State Regimes To Multi-Actor, Multi-Level Global Governance?" in Jacob Park, Ken Conca and Mathias Finger et al eds. *The Crisis of Global Environmental Governance* London and New York: Routledge, 2008

Ali, Saleem H. "Climate Conflicts: Extricating post-Kyoto debates in science and policy" In Velma Grover ed. *Climate change: Kyoto –Ten Years and Still Counting*. Science Publishers (New Hampshire, USA) and Oxford and IBH, 2008

Ali, Saleem H. "Environmental Conflict Resolution in the Extractive Industries: Implications for International Security." In Hans Guenter Brauch ed. *Facing Global Environmental Change: Environmental, Human, Energy, Food, Health and Water Security Concepts* (Berlin – Heidelberg – New York – Hong Kong – London – Milan – Paris – Tokyo: Springer-Verlag, March 2008). 22pp.

Ali, Saleem H. "Pakistani madrassas and rural underdevelopment." In Jamal Mali k ed. *Madrassas in South Asia: Teaching Terror?* London and New York: Routledge, 2007.

Ali, Saleem H. "Resolving environmental conflicts in Pakistan's energy policy." In *Fuelling the Future*. Washington DC: Woodrow Wilson Center, April, 2007.

Ali, Saleem H. and Matias Chiota. "Environmental Narratives in Collaborative Education: Experiences from the Middle East." In Stuart Schoenfeld ed. *Palestinian and Israeli Environmental Narratives*. Toronto, Canada: York University Press (Center for International Security Studies series), 2005, 23pp.

Ali, Saleem H. and Jose Olivera. "New Oil in Africa: Can Corporate Power Positively transform Angola and Equatorial Guinea?" Wayne Visser et al.eds. *Corporate Citizenship in Africa*. UK: Greenleaf Publications, 2006, 27pp.

Yelapaala, Kaakpema and Saleem Ali. "Small-scale Diamond Mining and Environmental Health: The Ghanaian Experience Chapter" in Gavin Hilson ed. *Poverty and Perseverance: The State of Artisanal and Small-Scale Mining in West Africa*, 2005, 21pp.

Ali, Saleem H. "Shades of Green: NGO Coalitions, Mining Companies and the Pursuit of Negotiating Power." chapter in Jem Bendell ed.: *Terms for Endearment: Business-NGO relations and Sustainable Development*. London UK: Greenleaf Publishing, 2000. 20pp.

Policy Reports, Encyclopedia /Handbook Entries and Monographs

Ali, Saleem H. Perrine Toledano, Nicolas Maennling, Nathaniel Hoffman, Lola Aganga, [Resourcing Green Technologies through Smart Mineral Enterprise Development: A Case Analysis of Cobalt](#), New York NY: Columbia Center on Sustainable Investment at Columbia University, February 2018.

Ali, Saleem H. and Helena Vladich, "Environmental Diplomacy," Entry in *Sage Handbook on Diplomacy*. 2016.

Ali, Saleem H. and Dawood Yasin. "Islam and the Environment." Entry in Richard Martin et al. eds. *Encyclopedia of Islam and the Muslim World*. Macmillan, 2015.

Ali, Saleem H. *Social and Environmental Risks to the Malaysian Rare Earths sector.*. Kuala Lumpur, Malaysia: Academy of Sciences, Malaysia, 2014.

Golev, Artem, Cornish, Gillian and Ali, Saleem (2014) Rare earths industry in 2013-2014: diversifying supply sources. *Australian Resources and Investment*, 8 1: 166-169

Ali, Saleem H. *Ecological Cooperation in South Asia: The Way Forward*. Washington DC: New America Foundation, January, 2013.

Ali, Saleem H. *Transboundary Conservation and Conflict Resolution: Lessons from projects commissioned by the International Tropical Timber Organization (ITTO)*. Yokohama, Japan: United Nations University, Institute for Advanced Studies, 2011.

Ali, Saleem H. and John Shroder: *Afghanistan's Mineral Fortune: Multinational influence and development in a post-war economy* Institute for Environmental Security and Diplomacy, University of Vermont, James Jeffords Center Monograph Series, C:2:2011.

Ali, Saleem H. *Energizing Peace: The Role of Oil and Gas Pipelines in Regional Cooperation*. Washington DC: The Brookings Institution, 2010. (published in English and Arabic).

Ali, Saleem H. and Richard Paradis. *Transitioning Land Tenure in Scotland: A Comparative Study of Public, Private and Community Arrangements*. James Jeffords Center Monograph Series, C:1:2010.

Bhurtel, Jugal and Saleem H. Ali. *The Green Roots of Red Rebellion: Environmental degradation and the rise of the Maoist movement in Nepal*. Watson Institute for International Studies, Brown University, UNEP Scholars of the Environment Program, 2005.

POPULAR PUBLICATIONS AND MEDIA INTERVIEWS

I PUBLISH VERY REGULARLY ONLINE IN VARIOUS VENUES

Please refer to my blogs on the following professionally reviewed sites:

Nature Sustainability Blog: <https://sustainabilitycommunity.nature.com/users/183121-saleem-ali>

Blog on National Geographic (environmental topics): <https://blog.nationalgeographic.org/tag/saleem-ali/>

Blog on Huffington Post (various topics): <http://www.huffingtonpost.com/saleem-h-ali/>

Articles for *The Conversation*: <https://theconversation.com/profiles/saleem-h-ali-111749/articles>

Select popular article citations are given below

Ali, Saleem H. "[Iran-Australia relations lend themselves to role in mediation](#)." Australian Broadcasting Corporation online article, January 3, 2018. Policy Article

Susskind, Lawrence and Ali, Saleem H. "The End of Environmental Diplomacy?" *Border Crossings* magazine (Part of *The Diplomat* publishing group), April 2016.

Ali, Saleem H. "Magic Metals." *Scientific American*, January 2014. Popular science article

Ali, Saleem H. "Working together to promote science education." *The Guardian Sustainable Business Zone*, December, 20 2013 Commentary article

Ali, Saleem H. and Pam Gardner "Wetland Diplomacy" *Our World 2.0*, Published by the United Nations University, May 18, 2012 Policy review article

Ali, Saleem H. "The Ecology of the Gold Standard." *National Geographic Newswatch*, Commentary

August, 2011.	article
Ali, Saleem H and Gary Flomenhoft, "Innovating Sovereign Wealth Funds." <i>Policy Innovations (Carnegie Council for Ethics in International Affairs)</i> , February 17, 2011	Review article
Ali, Saleem H. and Bharat Gopaldaswamy "Science Diplomacy in South Asia." <i>Policy Innovations</i> , November 17, 2010	Opinion article
Ali, Saleem H. "Confronting Culture in Congo," <i>Policy Innovations</i> , February 10, 2010	Opinion article
Ali, Saleem H. and Parag Khanna, "Energizing Peace" <i>Foreign Policy</i> , November 2009	Commentary
Ali, Saleem H. "Better environmental treaties," <i>Issues in Science and Technology</i> (published by the National Academy of Sciences and the National Academy of Engineering, Winter, 2009).	Commentary
Ali, Saleem H. and Hiba Zeino, "Towards Muslim-Christian Unity," commentary article on conflict resolution following the Pope's visit to the Middle East. Published in <i>Lebanon's Daily Star, Egypt's Daily News, The Kuwait Times and The Gulf News and The Khaleej Times</i> , May 21, 2009.	Commentary
Ali, Saleem H. "The Greening of Islamic Politics." <i>Policy Innovations Carnegie Council for Ethics in International Affairs</i> , August, 2008	Commentary Article
Ali, Saleem H. "Oil and Turmoil in Africa." <i>Policy Innovations Carnegie Council for Ethics in International Affairs</i> , March 12, 2008.	Commentary article
Ali, Saleem H. and Michael Cohen. "Salvaging Peace with Syria." <i>Policy Innovations Carnegie Council for Ethics in International Affairs</i> , November 20, 2007	Commentary article
Ali, Saleem H. "In China Globalization can be Green." <i>International Herald Tribune</i> , May 30, 2006	Opinion article
Ali, Saleem H. "The Peril of Port Polemics." <i>International Herald Tribune</i> , March 4, 2006	Opinion article
Ali, Saleem H.. "Japan's Carnival for Earth" <i>The Korea Times</i> , September 14, 2005	Commentary article
Ali, Saleem H. "The Educated Terrorist" <i>The Boston Globe</i> , September 6, 2005, P. A15	Opinion article
Ali, Saleem H. and Abigail Cutler "Madrassah Reform." <i>The Christian Science Monitor</i> , June 27, 2005	Commentary article
Ali, Saleem H. "Siachen: Ecological Peace Between India and Pakistan." <i>Sanctuary Asia</i> , February, 2005	Article
Educational video productions (produced, directed and filmed) -- available for viewing online through Google-video	
<ul style="list-style-type: none"> • <i>Transcending Boundaries Video Series</i>, 2010 -2012 (Supported by the James Jeffords Center). Available for online viewing at http://www.uvm.edu/ieds • <i>Tropical Gold: Reversal of Fortune in Fiji</i>, 2008 (with support from the Tiffany & Co. Foundation) 	

- *The Emerald City: Mines Markets and the Environment in Brazil*, 2006 (with support from the Tiffany & Co. Foundation).
- *Children of Faith: The Madrassahs of Pakistan*, 2005 (with support from the United States Institute of Peace)

Contributed to public programming and interview commentary for:

- SBS, Australian Radio (2013- present)
- BBC World Service (The World Today -- several times in 2007 and 2008)
- CNBC (Interviewed for a feature documentary Future earth October, 2009)
- National Public Radio (On-Point with Tom Ashbrook, 2002. Here and Now, 2010)
- Public Radio International (Living on Earth and Here on Earth)
- Al-Jazeera (Arabic and English Channels, twice in 2009)
- Vermont Public Television (Profile interview with Fran Stoddard, 30 minutes)
- Time magazine (interviewed by Bryan Walsh, 2009)
- Newsweek magazine (interviewed by Amber Haq, 2008)
- Science magazine (profiled twice in 2007 on a news feature on science and peace-building)
- Nature magazine (Profiled in 2007 for ecological peace-building)
- Dow Jones Newswire (2008)
- Christian Science Monitor (2006)
- Australian Broadcasting Corporation (Late Night Live, 2006 – 30 minute interview)
- The Daily Times, Pakistan (regular fortnightly columnist 2005 - 2010)
- Voice of America Radio (International Broadcasting Bureau of the United States government, several times)
- Burlington Free Press & Rutland Herald (frequently)
- Jamaica Public Radio (Morning broadcast with Beverley Manley (former first lady of Jamaica), twice in 2009)
- Fund for Sustainable Tomorrows (interviewee for their production: *Scarred Lands, The Environmental Impact of War*, launched at the Washington DC Film Festival, 2008).

Book reviews

Ali, Saleem H. 2018. Review of Buscher, Bram “Transforming the Frontier: Peace Parks and the Politics of Neoliberal Conservation in Southern Africa”. Durham and London: Duke University Press. *Journal of the Royal Anthropological Institute*, Fall, 2018.

Ali, Saleem H. 2016. “Questioning the transparency mantra in green governance.” *International Studies Review* 18:2 (Oxford University Press), May, 2016.

Ali, Saleem H. 2015. “Precious Metals.” *Science* 347 (6227): 1209–1209.

Ali, Saleem H. 2012. “Energizing Consensus.” *Science* Vol. 342 no. 6154 p. 40, October 4, 2013.

Ali, Saleem H. 2012. “Learning Ecological Ethics from Plato.” *Science* 335 (6070) (February 17): 797–798.

Ali, Saleem H. “The Inquisitive West.” Review of Intellectual Curiosity and the Scientific Revolution by Toby Huff, *Science*, Vol. 332 April 1, 2011.

Ali, Saleem H. “Toxic Power.” Review of The Polluters by Benjamin Ross and Steven Amter, *Chemical and Engineering News*, December 13, 2010.

Ali, Saleem H. “Cultivating Chaos” Review of Pandora’s Seed by Spencer Wells. *Science*, 23 July 2010: Vol. 329. no. 5990.

Ali, Saleem H. Review of “Green Cities” by Matthew Kahn. *Journal of the American Planning Association*, Vol. 74, No. 1, 2008.

Ali, Saleem H. Review of “Beyond Territory and Scarcity: Exploring Conflicts over Natural Resource Management.” *International Journal of African Historical Studies*. December, 2005

Ali, Saleem H. Review of “The Promise and Performance of Environmental Conflict Resolution” edited by Rosemary O’leary and Lisa Bingham. *Environmental Conservation*, (Cambridge University Press), July, 2005.

Ali, Saleem H. Review of “Water Wars”: by Vandana Shiva. For History-net, 2004

Ali, Saleem H. Review of “State of the Environment in Southern Africa.” *Journal of Modern African Studies*, (Cambridge University Press), Vol.34, No.3, 1996.

SELECT PAPERS PRESENTED AT CONFERENCES, SEMINARS AND REPORTS (*indicates peer-reviewed paper presentation)

Nature Geoscience and Nature Materials conference on Minerals and Materials for a Sustainable Future, Trondheim, Norway, Featured Speaker, September, 2018.

Resourcing Future Generations (IUGS International Conference), Vancouver, BC, Canada, Convener of Two sessions, June, 2018.

Gordon Research Conference on Industrial Ecology (sponsored by NSF). Invited funded speaker, ETH, Switzerland, May, 2018

Colorado School of Mines, Golden Colorado, Hennebach Lecture, “Beyond Resource Nationalism.” March, 2018.

United States Geological Survey, Reston VA: Invited Seminar, February, 2018

**Australian Geographers Conference, Brisbane, Australia. Mining at the Borders: Negotiating Political and Ecological Geographies of Cross-border resource projects. July, 2017.*

Society of Mining Metallurgy and Exploration, Mining Finance Conference, New York NY, Environmental Conflict Resolution in the Extractive Industries, Invited Presentation, May, 2017

American Association of Geographers. Panel presentation on political ecology of infrastructure organized by Anthony Bebbington (National Academy of Science member) and Simon Batterbury.

**World Bank, Land and Poverty Conference, Washington DC, Presentation on March 2017.*

Sasakawa Peace Foundation and Stanford University on Critical Materials, Invited speaker, November 2016.

Intergovernmental Forum on Mining, Metals and Sustainable Development, Geneva, Switzerland, Invited speaker, October, 2016

Commonwealth Parliamentary Association, Seminar presentation on the United Nations Sustainable Development Goals to parliamentarians from Commonwealth countries. Brisbane, Australia, June, 2016.

*Victoria University, Wellington New Zealand Border Studies Down Under Workshop Presentation on Arctic borderlands and experiential learning,. March, 2016.

German Finance Ministry – Raw Materials Annual Conference. Keynote speaker, “Nonrenewable but Sustainable?” Berlin November 10-11, 2015.

Speed Science- Energy presentation and Q&A with Members of Parliament, Queensland, September 17, 2015.

Australian National University, Conference on Artisanal and Small-scale Mining.” “The Social Ecology of Artisanal Mining: Between Romanticism and Anathema.” Canberra, November 5, 2015.

Wharton School, University of Pennsylvania, Overcoming the Infrastructure Gap – Panelist and Key presenter to Santander Network and Lauder Institute conference, March, 2015.

IUCN World Parks Congress, Main Session Presenter, Extractive Industries and Conservation, Sydney, November, 2014.

Invited Keynote Speaker at Second World Congress on Corporate Social Responsibility, Buenos Aires, Argentina, November, 2014 (Declined due to schedule clash with World Parks Congress invitation).

Constructive Consumption, Keynote presentation at the Sustainable Business Conference organized by Massey University, Auckland, New Zealand, November, 2013.

Time and Territory: Pacing and Spacing of Benefits from Resource Projects for Indigenous People, Keynote presentation at Australian Research Council Agreements Treaties and Negotiated Settlements Symposium, University of Melbourne, June, 2013

University of Wisconsin, “Big Learning Event” Keynote Speaker on *Resources, Distribution and Science in an Age of Pluralism*. June, 2013.

Water Security Future for South Asia, Presentation at European Green Week hosted by the European Union, Brussels, Belgium May, 2012

Rare Earth Minerals: An Industrial Ecological Approach. Presentation at Chinese Academy of Sciences, Beijing, April, 2012.

Conflict Minerals in Congo, Presentation at Clark University’s special conference organized by the Center for Holocaust Studies, September 2011.

Science and Peace-building in the Himalayas; From Siachen to Kanchenjunga, Presentation at Yale University, May 11, 2011.

China Energy and Environment Conference, featured presentation on Mining in China, Harvard University, April 9, 2011.

Beyond Islamic Studies, featured presentation on “Islam and the Environment: Is a Green Revolution Possible?” at Michigan State University, Lansing, April 6, 2011.

The Ethics of Mineral Extraction: Keynote presentation to students at the Norman Keevil Institute of Mining at the University of British Columbia, Canada, March 29, 2011.

Conflict and Cooperation over Natural Resources, Whitehead School of Diplomacy, Seton Hall University, New Jersey, February, 2011.

Treasuring the Earth, Invited presentation at Masdar Institute of Science and Technology and at NYU regional campus, Abu Dhabi, UAE, January 2011

Environmental Aspects of the Natural Resources Charter, Invited symposium presentation at Oxford University, Department of Economics, UK, September, 2010.

The Psychological Dimensions of Ecological Peace-building, Invited symposium presentation at the annual meeting of the American Psychological Association, San Diego, August, 2010.

Ecological Conflict Resolution, Presentation at the Institute for Advanced Study, United Nations University, Tokyo and Yokohama, Japan, July 2010

Environmental Planning for Mining in Cambodia, Policy paper prepared for the United Nations Development Programme and the Government of Australia's development conference in Phnom Penh (convened and attended by the Prime Minister of Cambodia), May, 2010.

Water cooperation and conflict in Pakistan, presentation to the Norwegian foreign ministry and related offices, organized by the Norwegian Peace-building Centre, Oslo, March 2010.

Prospects for ecological peace-building in the Golan Heights, Keynote lecture at Tel Aviv University, organized by the U.S. Embassy in Israel, January 2010.

Nonrenewable but Sustainable? The role of minerals in development, Organizer and moderator for special plenary session at the International Symposium on Society and Resource Management (ISSRM), Vienna, Austria, July, 2009.

Peace in the Pipeline: Prospects for using oil and gas pipelines as catalysts of cooperation, Presentation and live Al-Jazeera TV broadcast, Brookings Institution, Doha Center, Qatar, May 10, 2009.

Asia's Next Challenge, Discussion and presentation with Jeffrey Sachs, Earth Institute Columbia University, hosted by the Asia Society, New York, April 17, 2009.

Water Security in Asia, Presentation at the Dubai School of Government, UAE, March 15, 2009

Indigenous People and the Extractive Industries: Prospects for Business Development, Presentation at the International conference on indigenous business enterprises organized by the state of Amazonas, Brazil and the University of New Mexico's Anderson School of Management, Manaus, Brazil, July, 2008.

Transboundary Conservation and Conflict Resolution, Special side event hosted by the Secretariat of the Convention of Biological Diversity at the Conference of the Parties (COP-9), Bonn, Germany, May, 2008.

Environmental Science and Conflict Resolution. Keynote presentation at the International Workshop on Cryospheric Research and Environmental Hazards in South Asia, International Center for Integrated Mountain Development (ICIMOD), Kathmandu, Nepal, April 2008 (sponsored by the U.S. National Science Foundation and the Lounsebery Foundation).

Negotiating the idea of peace parks: from conservation to conflict resolution, Presentation at the School of International and Public Affairs and the Earth Institute, Columbia University, March, 2008.

Environmental peace-building in Islam Presentation and lesson plan development at the workshop on peace education in an Islamic context, Gadgah Mada University, Yogyakarta, Indonesia, November, 2007 (funded by the Swedish International Development Agency).

Prospects for environmental peace-building the Middle East. Presentation at the "Green Wars" conference, Beirut Lebanon, November, 2007.

Oil and gas pipelines as a strategy for peace building. Presentation at the School of International and Public Affairs, Columbia University, November 7, 2007.

**Extracting Conservation: A study of cooptation and compromise between indigenous communities, industry and environmentalists.* Paper presentation at the Society for Conservation Biology, annual meeting Port Elizabeth, South Africa. July, 2007.

**Conservation Warriors: The role of the military in transboundary environmental protection.* Presentation at the annual meeting of the International Association of Impact Assessment, Seoul, Korea, June, 2007.

**Spatial Analysis of Tourism versus Mining in Yunnan, China: Comparing economic and environmental impact,* (with Ganlin Huang) Paper presentation at the Association of American Geographers annual meeting, April 19, 2007.

Peace Parks and International Security. Invited paper presentation at the Monterrey Institute for International Studies, California, April 16, 2007.

Questioning the Resource Curse: Economic and Ecological Perspectives. Presentation at Griffith University Business School, Brisbane, Australia. August, 2006

Community-Driven Development in the Small-scale mining sector. Invited presentation and panel moderator at the World Bank's learning event on small-scale mining, Salvador, Brazil, September 18, 2005

Conservation and Conflict Resolution. Invited presentation to the Woodrow Wilson Center's Environmental Change and Security Project, Washington DC, September 12, 2005. Published in the *Environmental Change and Security Project Report*, December, 2005.

Extractive Industries among Indigenous Communities: Resolving Conflicts from the Americas to Australasia. Conservation International – CELB Distinguished Lecture on Indigenous Peoples, Washington DC: April 13, 2005.

Madrassahs and Modernity: An empirical environmental study of Pakistan's Islamic schools. Invited presentation at the School of Advanced International Studies, Johns Hopkins Univ., Washington DC, April 4, 2005.

Extractive Industries and Conflict, Invited presentation on a conference organized by the Heinrich Boll Foundation (Stiftung) at the Loccum Academy in Hanover, Germany, April 18, 2005.

**Himalayan High Ice: Climatic Change and Science for Peace in Siachen.* Invited presentation at the annual meeting of the American Association for the Advancement of Science (AAAS), Washington DC, February 19, 2005.

Ecological and Theological Peace-making: Prospects for Siachen and Kashmir. Presentation at the Weatherhead Center for International Affairs, Harvard University, November 12, 2004.

Minerals, Conflict and Cooperation: Beyond Resources Cures and Curses. Presentation at the Wilton Park conference on Environment, Development and Sustainable Peace, Royal Institute for International Affairs, UK, September 16-18, 2004.

The K-2-Siachen Peace Park: Moving from Concept to Reality. A working paper prepared for a workshop on environmental peace-making at the Harrison Program on the Future Global Agenda and the Center for International Development and Conflict Management at the University of Maryland, November, 2003.

**Scaled Partners: Public-Private Interactions for "Sustainable" Mineral Development.* (peer reviewed). Presented at the Open Meeting on the Human Dimensions of Global Environmental Change. McGill University, Montreal, October, 2003.

**Non-renewable but Sustainable? Environmental Planning for Mining Ventures.* Paper presented at the annual conference of the Association of Collegiate Schools of Planning (www.acsp.org), Baltimore, MD, November 2002 and also included in the proceedings of the South African Chamber of Mines Annual proceedings of research, Johannesburg, 2003.

Mutual Lesson-drawing from Environmental Conflict Resolution in Canada and the United States. Paper accepted for presentation at the International Association of Impact Assessment conference (www.iaia.org), Cartagena, Colombia, May, 2001.

Catalysts of Sustainable Consensus: Environmental Resources as Reasons for Cooperation Rather than Triggers for Conflict. Paper prepared for the Alliance for Global Sustainability (A research partnership between MIT, The University of Tokyo and the Swiss Federal Institutes of Technology). October, 1999.

Industrial Ecology: The New Age of Environmental Management. Paper presented at the Lahore University of Management Sciences, Pakistan, August, 1999.

Uranium Mining and Indigenous Communities: Cross-cultural Dispute Resolution in Australia and Canada. Paper presented at the WM99 conference of the nuclear industry in Tuscon, Arizona, March, 1999.

Environmental Planning for Mining Venture on Native Land. A briefing paper prepared for the Crow Tribe of Montana. Harvard University, Project on Native American Economic Development Report 98-11, December, 1998.

**Climate, Caprice and Consensus: Prospects for Water Management in the Zambezi Basin.* Paper (with Bo Barta as coauthor) published in the proceedings of the UNESCO conference on Climate Change and Water, Espoo, Finland, August, 1998.

Ecological Themes in Islam and Islamic Societies. Paper presented at the Conference on Islam and Development, University of Rhode Island, April, 1998

Water and Diamonds: Resource Scarcity and Institutional Reform in Southern Africa. Published in the Proceedings of the World Water Congress, Montreal, September, 1997.

Greening Pharmaceutical Businesses? Effective Management of Biochemical Prospecting Agreements. Presented (with coauthor Shana Liberman) at the conference of the Pollution Prevention Consortium of New England entitled "Reinventing Environmental Protection" (Harvard University, Cambridge MA, February, 1996).

Environmental Rights and the Oil Industry in Nigeria: A Legal Review. A study prepared for the Schell Center for Human Rights at Yale Law School and the Center for Constitutional Rights, New York, 1995 (with coauthors Hari Osofsky and Antoinette Wannebo)

Water Quality and Reforestation in the Lake Tinaroo Catchment, Queensland, Australia. Directed research project for the Centre for Rainforest Studies, Yungaburra, QL, Australia, Summer, 1992 (withcoauthor Kelly Forester).

NOTABLE GRANTS

- | | |
|------|---|
| 2018 | Unidel Foundation Grant. Developing a program on Minerals, Materials and Society, \$390,000. |
| 2017 | Tiffany & Co. Foundation. <i>Creation of a Knowledge Hub on Colored Gemstones and Sustainability.</i> \$350,000 |

- 2016 German Development Agency (GIZ). *Development of a navigator for the support of economic diversification in resource-rich countries*. Euros 35,000
- 2015 Natural Resources Governance Institute (NRGI) supported by Norwegian Development Agency, *Myanmar's Extractive Industries Transparency – A Benchmarking Study*. \$65,000.
- 2015 UK Department for International Development. *Evidence Synthesis on the impact of extractives on political settlements and conflict in East Africa*, GBP 100,000
- 2015 US Army Research Office. *Reframing the Arctic: Cooperation, not Conflict*. \$15,000 Symposium and Anthology development grant.
- 2014 International Growth Centre (Administered by The London School of Economics and Oxford University), “Water Delivery and Pricing in Pakistan’s Industrial Heartland.” GBP 40,000.
- 2014 Ford Foundation, with Diana Arbelaez-Ruiz, *Social Inclusion in Colombia’s Mining Sector*, \$265,000 over 18 months.
- 2014 Tiffany & Co. Foundation, with Daniel Franks, “Does Mining Measure-Up? The role and effectiveness of certification schemes in the promotion of responsible mineral development.” \$250,000 over 2 years.
- 2013 Australian Development Research Awards Scheme – ADRAS (Department of Foreign Affairs and Trade), with Deanna Kemp and associates at University of Queensland. *Mongolia’s mineral development path: Applying socio-ecological metrics to evaluate and track livelihood transitions in a nomadic society*” (\$630,000 over 3 years).
- 2013 The World Bank, Oil Gas and Mining Department, *Socio-economic impact of mining in Madagascar*. With Cristian Parra, Lynda Lawson and associates at University of Queensland (\$249,000 over 8 months).
- 2013 Commonwealth Scientific Industrial Research Organization (CSIRO). *Wealth from Waste: Identifying Viable Options for Metal Recycling*. Collaborative Research Cluster grant with University of Technology Sydney (PI Dr. Damien Giurco) and Yale University (PI Dr. Tom Graedel) - \$AU 2.5 million.
- 2012 United States Department of Defense and National Science Foundation, Minerva Initiative: Strategic Responses to Energy Security Threats, \$197,000. With Rebecca H. Pincus as lead researcher.
- 2011 Tiffany & Co. Foundation. Conservation through Sustainable Livelihoods: Developing a Certification System for Pearl Farming in Small-Island Coral States, \$200,000. PI with Laurent Cartier, University of Basel, Switzerland.
- 2011 Harvard University, Kennedy School of Government: Subcontract of a grant from Rio Tinto Corporation on researching best practices in indigenous mining negotiations. \$75,000
- 2011 CIRCA Ltd. Report preparation on sustainability comparisons between jewelry producers with an emphasis on gold recycling. \$15,000
- 2010 James Jeffords Center, University of Vermont, Signature award to establish an Institute for Environmental Diplomacy and Security, \$150,000 over 3 years.
- 2010 Government of Switzerland, Grant to be a lead project for community mapping as a means

of resolving border conflicts and developing an atlas of ecological cooperation as part of the World Knowledge Dialogue, funded through the University of Geneva.

- 2009 Brookings Institution and the Government of Qatar , Ministry of Foreign Affairs, *Gas and Oil Pipelines as Catalysts for Conflict Resolution: A comparative analysis of existing and future projects in the Gulf and beyond*. \$26,000 (as part of an application-based Visiting Fellowship at the Brookings Doha Center)
- 2009 Rockefeller Brothers Fund and the Ross Foundation support for the Asia Society’s Leadership group on Water Security in Asia. Subcontract for research and writing of report and travel expenses for participation \$15,000
- 2007- 2008 Tiffany Foundation: *Evaluating Environmental Risks in Gold Mining: A Perceptual Study of Public Health at the Vatakoula Gold Mine in Fiji*, \$52,000 (Principal investigator: Saleem Ali)
- 2005 -2007 Tiffany Foundation Research Grant: *Artisanal Gemstone Miners and the Environment: A Comparative Study of Madagascar, Brazil and Myanmar (Burma)*, \$43,500. (Principal investigator: Saleem Ali)
- 2003 *United States Institute of Peace*: Research grant on “The Madrassahs of Pakistan: Pathways to Education, Extremism and Conflict prevention.” \$35,000. (Principal investigator: Saleem Ali)
- 2002 *Henry Luce Foundation*: Brown University (Principal grant recipients Steven Hamburg and Richard Wetzler -- \$1.2 million). Grant component used to initiate an environmental and social audit program for mining ventures in the Democratic Republic of Congo, in collaboration with the University of Kinshasa

AWARDS AND PROFESSIONAL INVITATIONS:

- 2018 ongoing - *Chosen as Advisor on Climate Change Mitigation to the Global Environment Facility – the world’s largest multilateral donor fund for environmental action. Member of the Scientific and Technical Advisor Panel (STAP).*
- 2018 present - *Fellow of the Royal Society of the Arts (FRSA)*
- 2018 ongoing – *Collaborating Mentor for Postdoctoral Associates of the National Socio-ecological Synthesis Centre (SESYNC) supported by the U.S. National Science Foundation.*
- 2018 ongoing – *Associate Investigator for the Australian Research Council’s Centre of Excellence for Electromaterials Science (ACES)*
- 2017 ongoing *Expert Group Member for United Nations Environment – International Resource Panel.*
- 2016 ongoing *Member of the Global Future Council on Advanced Materials (established by UAE government and World Economic Forum)*
- 2015 ongoing - *Member of governing council of the Chinese Innovation Centre for Energy Economics and Policy (a collaborative centre between Xiamen, Wuhan and Fudan Universities).*
- 2014 ongoing – *Intergovernmental Platform on Biodiversity and Ecosystem Services (IPBES). Expert advisor on Regional/subregional assessments on biodiversity and ecosystem services*

- 2013 *Juror, Agahi Awards for Journalism in Pakistan.* Presented by Mishal Pakistan Foundation
- 2011 *Young Global Leader, World Economic Forum.* Chosen by an international selection committee chaired by Queen Rania of Jordan
- 2011 Listed by *The Guardian* and *The Observer* (UK publications) as an “Eco-diplomat” in their “Green Giants” list for 2011.
- 2010 *Emerging Explorer award, National Geographic Society.* Profile published in June 2010 issue of National Geographic magazine along with a \$10,000 prize award
- 2009 *Invited participant for a closed meeting with the Tibetan Dalai Lama, conflict researchers and environmental scientists on water security concerns in Tibet and Central Asia organized by the Hague Center for Security Studies, The Hague, The Netherlands, June 5 2009.*
- 2009 *Invited speaker at the United Nations Permanent Forum on Indigenous Peoples, special workshop on mining and indigenous conflicts, Manila, The Philippines, March 28, 2009.*
- 2009 *Invited speaker at American Association for the Advancement of Science* (speaker at 2005 and 2009 meetings at research sessions organized by the National Science Foundation and the U.S. State Department)
- 2008 *Invited participant to the World Economic Forum’s scientists consultative session, Boston, September 2008.*
- 2007 *Selected as a “Revolutionary Mind” by Seed magazine* (circulation at that time of 500,000).
- 2007- *Diamonds and Development Initiative, Partnership-Africa-Canada, member of advisory group.*
- 2007- *DeBeers Stakeholder Engagement Forum, Member of stakeholder engagement group*
- 2006 - 2009 *United Nations mandated University for Peace, (San Jose, Costa Rica) Senior Fellow.*
- 2007 *Invited speaker at the UCLA forum on establishing an Arab-Israeli confederation.*
- 2007 *Invited speaker at the University of Colorado and the National Summit of Mining Communities* (Leadville, Colorado) on environmental conflict resolution in mining sector
- 2004 – *World Conservation Union (IUCN) / World Commission on Protected Areas, Member of Commission and Task force on Trans-boundary Conservation.*
- 2004 - 2007 *Selected member of the expert advisor group on environmental conflicts to the United Nations Environment Programme, Nairobi, Kenya*
- 2005 *Academic observer at the United Nations Permanent Forum on Indigenous Peoples in New York*
- 2004 *Invited to lead a workshop on conflict resolution by the World Bank at the annual meeting of the Communities and Small-scale Mining program, Colombo, Sri Lanka, October 11-14.*

- 2004 Invited speaker on peace parks at the International Environmental Security Conference at the Carnegie Foundation Peace Palace, The Hague, Netherlands, May 7-8, 2004.
- 2003 Invited participant in the United Nations Environment Program first collaborative meeting on environmental conflict resolution, Washington DC. December 3 and 4.
- 2003 Invited participant in the U.K. Department for International Development / World Bank workshop on Communities and Small-scale gold mining, Accra, Ghana.
- 2003 Invited participant and peer reviewer at the World Bank Extractive Industries Review, indigenous rights workshop, organized by the Forest Peoples Programme, Oxford, UK and World Bank African mining workshop in Maputo, Mozambique (unable to attend)
- 2003 Invited participant in the Middle East Environmental Futures project – a collaborative effort between Brown University and York University Canada:
<http://www.watsoninstitute.org/meef/english/index.cfm>
- 2003-4 *University of the Middle East Faculty Fellowship*, Taught a course on environmental governance to mid-career professionals from the Middle-East – held in Toledo, Spain. Co-directed the institute in sustainable development, 2004
- 2002 *Mongolian Parliament (Great Hural of Mongolia)*, Invited for a scoping visit to develop ways of mitigating conflict between artisanal miners and mining companies in the country.
- 2002 *Peking University, China, College of Environmental Sciences*: Invited guest lecturer for a one-week module on environmental conflict resolution.
- 2002-present *MIT-Harvard Public Disputes Program*, Harvard Law School, Affiliated faculty member:
<http://www.pon.harvard.edu/research/projects/pdp.php3>
- 2002 present - *U.S.A.I.D Regional Environmental Initiative for Africa (FRAME): Member of Contact Group and coordinator for Mining projects*. Establishing a network of communities impacted by mining in Africa: www.frameweb.org
- 2001 – present *Government of Pakistan*, Advisor and curriculum reviewer to Higher Education Commission, Environmental Science and Forestry Curricula
- 1999 *Kristen Finnegan Prize for Excellence in Teaching*, Massachusetts Institute of Technology
- 1998 *Martin Research Fellowship*, Alliance for Global Sustainability: A joint initiative of the University of Tokyo, the Swiss Federal Institute of Technology and the Massachusetts Institute of Technology
- 1997 -- 1999 *Voorhees Scholarship*, Massachusetts Institute of Technology
- 1995 -- 1996 *Donaldson Environmental Fellowship*, Yale University
- 1994 *Marshall-Hoshhauser Prize* for "altruistic community service," Tufts University.
- 1994 *Durkee Scholarship* for chemical research, Tufts University
- 1994 *Phi Beta Kappa*, National Honors Society: elected from Tufts University
- 1992 *The Model United Nations Conference at Harvard University: Outstanding Delegate Award*.

Select Graduate Research Theses (In addition during my tenure at the University of Vermont I also advised on average of 10 undergraduate theses every year and continue to advise similarly at the University of Delaware)

At University of Delaware, USA

Mehmet Altingoz, Doctoral studies commenced, September, 2017.

Qiuxi Li, Doctoral studies commenced September, 2017.

Robert Ddamulira, Doctoral studies commenced, September 2018.

Ahmad Sabab Sharek, Doctoral studies commenced, September, 2018.

M. Nauman Khurshid, Masters studies commenced, September, 2018

Sindhuja Sunder, Masters studies commenced, September, 2018

At University of Queensland, Australia

Janjua, Ron. Doctoral studies commencing, June, 2017.

Huda, Mirza Sadaqat, *Transnational Energy Projects as Mechanisms of Regional Cooperation in South Asia: A Multi-method Comparative Analysis*. Ph.D. (July 2017).

Flomenhoft, Gary, *The Commonwealth of Natural Resources: A Comparative Study* (expected doctorate in 2018).

Khadim, Asmaa, *Environmental primacy in indigenous laws*. Expected completion, 2019.

Vo, Mai, *Government-managed resettlement in Vietnam: structure, participation and impoverishment risks in the case of the Thach Khe iron ore mine*, Ph.D. 2014.

At University of Vermont, USA

McRae, Kim. *Effects of PCB contamination on the Environment and Cultural Integrity of the St. Regis Mohawk Tribe*. Ph.D, 2015.

Nash, Julie. *Market and Conservation-driven Sustainability Initiatives: Marine Cultured Pearls as Exemplars of Collaborative Environmental Governance.* 2014.

Pincus, Rebecca. *The United States Department of Defense and the Challenge of Climate Change: An Inquiry into Organizational Adaptation and Resilience*. Ph.D., 2013.

Pino, Marcela. *Agroforestry and Food Security in Coffee-growing Communities in Nicaragua*. Masters of Natural Resources thesis, 2013.

Vladich, Helena. *Participatory spatial analysis, high resolution remote sensing data and ecosystem services valuation approach as tools for environmental consensus building*, Ph.D. 2013.

DeCarlo, Anjanette, *Sustainable strategies for implementing development assistance : enterprise, women's empowerment and NGO's in Africa and the diaspora*, Ph.D. 2012

Shah, Hajra, *Barriers to Clean Gold technologies in the Artisanal Gold Mining Sector*. Masters in Natural Resources (Fulbright Scholar), 2011.

Pincus, Rebecca, *Implementing national energy security and environmental security through the US federal courts system* (Joint degree student with Vermont Law School), 2010

Doshi, Samir Kiran, *Systems Approach to Ecological Restoration in Appalachia: Regenerating Degraded Coal-Mined Landscapes to Develop Healthy Communities.*” Doctorate in Natural Resources, 2010.

Czermińska, Agata, *Transformation of a Coal Economy: Public Attitudes and Climate Change Policy in Silesia, Poland.* Masters in Natural Resources 2009

Murphy, Kathleen Ann, *Overcoming the Resource Curse in Peru: How Transparency Can Lead to Sustainable Development,* Masters in Natural Resources, 2009.

Huang, Ganlin, *Mining and Tourism: Comparing Spatial Patterns, Socioeconomic Contributions, and Environmental Impacts in China.* Doctorate in Natural Resources, 2008.

Cerretti, Jamie, *Sources of negotiation power in environmental conflicts : the case of oil extraction in the Ecuadorian Amazon,* Masters in Natural Resources, 2007

Lovitz, Sara Beth, *Scales of responsible gold mining: overcoming barriers to cleaner artisanal mining in southern Ecuador,* Masters in Natural Resources, 2006

MEMBERSHIPS and ASSOCIATIONS OF NONPROFIT ORGANIZATIONS

- *Member Board of Governors LEAD-Pakistan (Leadership in Environment and Development – organization established by the Rockefeller Foundation) – 2011 - present*
- *Member of the Board, Institute for Sustainable Mining (2008 – present)*
- *Member of the Board and Secretary, DMZ Forum, Korea and USA (2010 – present)*
- *Member of the Board of Advisors, International Peace Park Expeditions (2009 – 2013)*
- *Society for Conservation Biology (2005- present)*
- *International Studies Association, Environmental Chapter 2004 -- present*
- *Minerals Economics and Management Society (Conference Chair for Panel on Relationships between Industry and Communities –2005*
- *Vermont Council on World Affairs – 2005*
- *Association of American Geographers (presidential invited member 2006-2007)*

Peer reviewed manuscripts for

- *Global Environmental Politics*
- *Cambridge Review of International Affairs* (Taylor and Francis)
- *Environmental Science and Technology* (American Chemical Society)
- *Journal of Environmental Planning and Management* (Carfax)
- *Journal of Cleaner Production*
- *Journal of Environmental Management* (Elsevier)
- *Journal of Modern African Studies* (Cambridge University Press)
- *Journal of Corporate Citizenship* (Greenleaf, UK)
- *Natural Resources Forum*
- *Resources Policy*
- *Public Administration Review*
- *State of the World Reports* (Worldwatch Institute, published by W.W. Norton)
- *Resources Policy* (Elsevier)
- *Water International* (International Water Resources Association)
- Yale University Press

- Cornell University Press
- Oxford University Press
- University of Chicago Press
- University of California Press
- McGraw Hill, Environmental Science Division (text books on environmental science)

Editorial Boards:

University of Chicago Press, Summit Series on Environment and Society, 2014 - present

Review of Middle East Studies (Cambridge University Press) 2011 - present

Award Review:

Grawemeyer Award for Ideas Improving World Order, University of Louisville, Kentucky

Peer reviewer for ongoing projects at the United States Agency for International Development, the World Bank Oil Gas and Mining Department, the Emirates Centre for Strategic Studies, and The United Nations Environment Programme.

TEACHING EXPERIENCE

University of Queensland, Australia

- Community Research Methods – Masterclass and course annual course 2013 - present

University of Cambridge Institute for Sustainability Leadership, UK

- Advanced Social Management Programme for AngloAmerican Mining Corporation: 2013 - present

University of Vermont

- Indigenous Environment and Development Conflicts (ENVS 295) – S 2007
- Research Methods for Environmental Professionals (ENVS 201)
- Environmental Conflict Resolution (ENVS 295), S 2003
- Introduction to Environmental Studies (ENVS 001), F 2003, F 2004
- Environmental Peace Movements (through continuing education: ENVS 296) F 2003
- Environmental Planning and International Development (ENVS 295) S 2004, S 2005
- Environmental Policy (ENVS 290) F 2005
- Indigenous Rights and Natural Resources (NR 378) S 2005 – co-taught Service learning class
- Guest lectures in courses on International Environmental Studies and Religion and Ecology

Brown University

- Environmental Conflict Resolution F 2001
- Environmental Planning S 2002

Massachusetts Institute of Technology

- Technical Writing for Chemical Engineers (primary instructor) 1999 - 2000
- Environmental Policy and Regulation (teaching assistant) 1998

Yale University, School of Forestry and Environmental Studies

- Environmental Chemistry (teaching assistant) 1995
- Environmental Organic Chemistry (teaching assistant) 1996

UNIVERSITY AND COMMUNITY SERVICE

- National Science Foundation, Advance Program Fellow, September 2018 - present

- Member of Diversity and Inclusion Committee, College of Earth, Ocean and Environment, September 2016 – present.
- President of the Yale Club of Queensland, Australia, January 2016 – December 2016.
- Member of Indigenous Affairs Committee at the University of Queensland, Australia, January 2013 – 2016.
- President’s Commission on Diversity and Inclusion, University of Vermont, member 2007 – 2012
- Committee to establish Global Studies Program, representative for environmental and natural resources 2006-2007
- Governor’s institute in science, invited speaker on climate change conflicts to high school honors students, 2007.
- Hosting an intern at UVM from the Arava Institute (Israel) on a program to promote understanding between Arabs and Jews using the environment as peace-building tool, September-October, 2005, by a grant from the U.S Department of State.
- Community facilitator for “Great Decisions 2005” series on water for the Burnham Memorial Library in Colchester on the world water crisis (October, 2005).
- Faculty Advisor to UVM Muslim Student’s Association, organization initiated spring, 2005.
- Secured mini-grant with Vermont Campus Compact and the United Nations Foundation to bring speakers on the topic of Oil and the Environment to UVM in 2005.
- Member of Honors Studies Committee for Rubenstein School of Environment and Natural Resources, University of Vermont (elected 2004 for a three-year term).
- Faculty liaison at UVM for the Udall Scholarship – Morris K. Udall Foundation
- Member of Diversity task force for Rubenstein School of Environment and Natural Resources, University of Vermont. Given two public presentations to the university community in 2002 and 2003 (one on environmental activism and violence and the second on Pakistani society).
- Developed an online class on countering terrorism through mutual understanding between South Asians and Americans taught through continuing education (including students who are Vermont National Guard troops serving in Iraq).
- Mediating a dispute between a calcium carbonate mining company, community activists and residents and the state of Vermont, under the purview of the Vermont Environmental Commissioner

REFERENCES:

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Dr. Joseph Kalt, Professor of Political Economy Emeritus, Kennedy School of Government, Harvard University, Cambridge MA 02138, USA. Ph: 617-834-3544. Email: joe_kalt@harvard.edu

Daniel Esty, Esq. Hillhouse Professor of Environmental Law and Policy, Yale University, 301 Prospect Street, New Haven, CT,06511, USA. Ph: 203- 432-6256, 432-1602, daniel.esty@yale.edu

Dr. Jared Cohon, President Emeritus of Carnegie Mellon University,5000 Forbes Avenue, Pittsburgh, PA 15213-3890, USA. Ph: 412-268-2000, email: jaredcohon@cmu.edu