

# Sharlissa Moore

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## Education

**PhD, Arizona State University**, Human & Social Dimensions of Science & Technology

*Fields:* Science, Technology, and the Environment; Governing Energy Technologies: the Social and Political Dimensions of Energy; Technology and the International Political System

*Dissertation title:* Visions for Sustainable Energy Transformations: Integrating Power and Politics in the Mediterranean

*Committee:* Edward Hackett (Chair), Ben Minter, Mary Jane Parmentier, Jameson Wetmore

2005 **Bachelor of Arts, Smith College**, *Astronomy with Physics Minor*

## Academic Experience

08\15- present **Assistant Professor**, *East Lansing, MI.*

James Madison College, College of Engineering. Affiliations: Environmental Science and Public Policy; Institute for Public Policy and Social Research

01\14-15 **ASU Walton Sustainability Solutions Fellow**, *Tempe, AZ.*

Work on a project called "Co-lab" to design successful collaborative processes on sustainability challenges

05\11- **ASU Consortium for Science, Policy, and Outcomes**, *Research Associate*, Tempe, AZ.

05\12 Co-edited the background report on Arizona's Energy Future for the Arizona Town Hall Association. Researcher on the Climate Change Education Partnership NSF grant.

08\09- **ASU's Office of Knowledge Enterprise Development**, *Research Associate*, Tempe, AZ.

05\11 Worked directly for ASU's Senior Vice President. Conducted survey research on effective large-scale project management. Designed evaluation of DOE's ARPA-E program.

## Courses Offered

International Energy Policy

Regional and Transnational Energy Systems Senior Seminar

Nuclear Energy and Policy

## Previous Teaching Experience

06\12- **Teaching Associate\Assistant**, Sustainable Development Across the Mediterranean, ASU.

06\16 Helped lead three trips to Morocco and Spain for 30 students in 2013, 21 in 2014, and 22 in 2015. Helped arrange meetings with energy experts, prepared students for learning in a new culture, helped students formulate research papers, graded papers. Participated in 2016 trip as guest faculty.

08\12- **Teaching Associate\Assistant, CEE 181**, Introduction to Sustainable Engineering, ASU.

05\13 For Prof. Brad Allenby's class: plan and teach two weekly seminars, meet with students, assist with syllabus development, grade weekly assignments and term papers for 50 students, mentor students. I was the instructor of record for the course.

09\02- **Astronomy Department**, Teaching Assistant, Smith College.

05\05 Assisted professor with class and lab duties. Answered students' questions regarding lab work. Administered constellation and telescope quizzes. Ran public open house nights.

### **Guest teaching experience**

10\2016 Guest speaker in Introduction to Science, Technology, Environment and Public Policy.

10\2015 Guest speaker in Introduction to Science, Technology, Environment and Public Policy.

04\2014 Guest speaker in an undergraduate methodology class, Tools for Analyzing Sustainable Energy Solutions.

04\2014 Guest speaker in a photovoltaics class, Policies for incentivizing solar energy.

04\2013 Guest speaker on Student Pugwash, History of Nuclear Weapons class.

04\2012 *Bioenergy, Energy Systems Transitions, and Society*. Guest panelist in science and professional ethics course.

03\2012 *Desertec: Turning Deserts Into Powerhouses?* Guest Teacher at ASU's Herberger Young Scholars Academy.

03\2012 *Making Space for Solar Power*. Guest lecture in solar energy and public values class.

04\2011 *Visualizing Solar Power Sites*. Guest lecture in solar energy and public values class.

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## Policy Experience

2010- **Student Pugwash USA**, *Chair of the Board of Directors*, Washington, DC.

present Previous positions held include President (9/09-9/15), Interim Executive Director (5/07-8/07), Program Manager (1/07-8/08), and Program Coordinator (1/06-1/07). Elected as President by Board in 2010 and Chair in 2016. Helped organize 2017-2018 workshop series on technology and ethics. Direct fundraising, strategic planning, and student organizing. Manage organization's finances. Manage interns. Developed 2012 and 2008 science and technology policy election guides and contests. Assist with social networking sites, email list, website, and blog. Planned national and regional conferences including Science and Technology Policy lunch series for 150 students.

06\10- **Science and Technology Policy Institute**, *Research Intern*, Washington, DC.

08\10 Selected for competitive internship program. Conducted research & wrote policy papers (see pub section).

6\09-8\09 **White House Office of Science & Technology Policy**, *Student Volunteer*, Washington, DC.

Wrote white paper on proposed energy/ society research program. Assisted with open access journal policy, report releases, and reconstituting the National Science and Technology Council committees.

8\05-1\06 **Union of Concerned Scientists**, *Scientific Integrity Intern*, Washington, DC.

Assisted in writing action alerts to 9,000 scientists and 25,000 activists. Assisted in organizing lobby day resulting in new legislative cosponsors. Maintained program web pages. Tracked media coverage.

5\02-8\02 **Student Conservation Association**, *Transportation Interpreter*, Scotts Bluff National Monument, Nebraska.

Gave talks on ecology, fire management, and bio-diesel fuel. Led interpretive hikes on flora and fauna.

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## Publications

### **Peer Reviewed**

**Moore, S.** 2017. Evaluating the Energy Security of Electricity Interdependence: Perspectives from Morocco. *Energy Research and Social Science*. 24, 2017: 21-29.

Parmentier, M.J. & **S. Moore**. 2016. The Camels are Unsustainable: Using Study Abroad as a Pedagogical Tool for Teaching Ethics and Sustainable Development. *Teaching Ethics*. Forthcoming.

**Moore, S.** & E. Hackett. 2016. The construction of technology and place: concentrating solar power conflicts in the United States. *Energy Research and Social Science*. 11, 67-78.

**Moore, S.** 2017. Book review of Fact and Fiction in Global Energy Policy: 15 Contentious Questions. *Research Policy Review*.

**Moore, S.** 2013. Envisioning the Social and Political Dynamics of Energy Transitions: Sustainable Energy for the Mediterranean Region. *Science as Culture*. 22:2, 181-188.

**Moore, S.** & R. Shangraw. 2011. Managing Risk and Uncertainty in Large-Scale University Research Projects. *Research Management Review*. 18(2).

**Moore, S.** 2012. Book review of Renewable Energy and the Public. Edited by Patrick Devine-Wright. *Research Policy Review*.

### **Other**

Schinke, B., J. Terrpon-Pfaff, S. Borbonus, P. Viebahn, T. Fink, B. Brand. 2015. *Social CSP: Energy and Development: Exploring the local livelihood dimension of the Noor I CSP project in Southern Morocco*. Subcontractor and Editor.

**S. Moore** 2014. *Visions for sustainable energy in North Africa: Social science fieldwork on solar energy*. African Network for Solar Energy News. 1/2014

Aragon, N. et al. 2011. Miller, C. & **S. Moore**. (eds.) *Arizona's Energy Future*. Background Report Prepared for Arizona Town Hall.

Miller, C. & **S. Moore**. 2011. Introduction. In *Arizona's Energy Future*. Background Report Prepared for Arizona Town Hall.

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## Policy Papers

A Coordinated Research Program in Human and Social Dimensions of Energy: Current Funding and Future Directions. 2009. Written for the White House Office of Science and Technology Policy and the National Science and Technology Council.

Risk Assessment for Deepwater Oil Spills. 2010. White Paper written at the Science and Technology Policy Institute for the White House Office of Science and Technology Policy.

Introduction to Coastal and Marine Spatial Planning. 2010. White Paper written at the Science and Technology Policy Institute for the White House Office of Science and Technology Policy.

Norwegian Clean Seas Association for Operating Companies (NOFO) and Risk Assessment. 2010. White Paper written at the Science and Technology Policy Institute for the White House Office of Science and Technology Policy.

Public Engagement in Science and Technology: Literature and Methods. 2010. White Paper written for the Science and Technology Policy Institute.

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## Works in Progress

Book Manuscript: Integrating power and Politics: Visions for Sustainable Energy Transformations in Morocco and the Mediterranean.

The Institutional and Macroethical Dimensions of Responsibility in Science and Technology.

Framing Generation IV Nuclear Power Plants.

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## Grants

- 2016 Science and Society at State Award with Mehrnaz Ghamami, PI, and Annick Anctil, Societal Perception about On-Road Wireless Charging for Electric Vehicles Considering Mobility and Environmental Impacts \$10,000
- 2016 Science and Society at State Award with Tom Bieler and Annick Anctil, Linking Engineering and Science Studies to Support a Transition to Sustainable Energy \$10,000
- 2013 NSF Doctoral Dissertation Improvement Grant for research in Morocco fall 2013 and February 2014 \$18,000
- 2013 QESST & CSPO Award for field research in Germany \$5,000
- 2012 GISER Award, collaborative award for an event to exchange knowledge between social and natural scientists about solar power \$500
- 2012 Society for Social Studies of Science travel grant \$900
- 2011 CSPO travel grant for field research in Egypt \$5,000
- 2009 ASU Center for Biology in Society Research Grant \$200
- 2004 Smith College Praxis Grant \$2,000

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## Fellowships and Honors

- 2015 Energy Research and Social Science. Top Reviewer Award
- 2014 ASU College of Liberal Arts and Sciences Excellence Award
- 2012 Nominee for ASU Faculty Women's Association Distinguished Graduate Student Award
- 2010-2011 ASU Spirit of Service Scholar, 2010-2011 (Very competitive scholarship program, \$5,000 award plus monthly activities)
- 2010 Best of Panel Award, STGlobal conference
- 2008-2009 Graduate Recruiting Fellowship

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## Conference Presentations

- 04\2017 Moore, S. Evaluating the Energy Security of Electricity Interdependence: Perspectives from Morocco. Energy Research and Social Science Conference. Sitges, Spain.
- 02\2017 Moore, S. "Evaluating North-South Partnership on Electricity Integration. International Studies Association. Baltimore, MD.
- 09\2016 Moore, S. Evaluating the Energy Security of Electricity Interdependence. Energy Policy Research Conference. Santa Fe, New Mexico.
- 11\2015 Moore, S. A Framework for International Energy Justice. Society for the Social Studies of Science conference. Denver, Colorado.
- 8\2014 Moore, S. A Framework for International Energy Justice. Knowledge from the Margins Conference. East Lansing, MI.
- 8\2014 Moore, S. Renewable Energy Development in Morocco: National Pride and Regional Integration. Society for the Social Studies of Science conference. Buenos Aires, Argentina.

- 11\2013 Moore, S. Desertec: Visions for Sustainability Energy in the Mediterranean. STS Perspectives on Energy Conference. Lisbon, Portugal.
- 4\2012 Moore, S. Desertec: A Sustainable Development Revolution or White Elephants Colonizing the Desert? STGlobal conference. Washington, DC.
- 10\2012 Moore, S. Visions of a Sustainable Energy System for the Mediterranean Region. Society for the Social Studies of Science. Copenhagen, Denmark
- 08\2012 Moore, S. Power Disparities: Visions of a Sustainable Energy System for Europe and North Africa. The Gordon Research Seminar on Science & Technology Policy. Waterville Valley, NH
- 08\2012 Moore, S. Visions of a Sustainable Energy System for Europe and North Africa. Poster.Gordon Research Conference on Science & Technology Policy. Waterville Valley, NH.
- 04\2012 Moore, S. Solar Energy and Social Movements: Would John Muir be Rolling in His Grave? ASU | UA Renewable Energy Science Conference. Tempe, AZ.
- 03\2012 Moore, S. Energy Justice: Lesson from the Mediterranean Region. STGlobal Conference. Washington, DC.
- 11\2011 Moore, S. (moderator) J. Yassif, M. Rose Roberts, K. Gracey, C. Sequeira. The Role of the Nonprofit Sector in SEI Education. SEI Congress. Arizona State University. Tempe, AZ.
- 09\2011 Moore, S., Shangraw, R. Managing Large-Scale University Research Projects. The Atlanta Conference on Science and Innovation Policy. Atlanta, GA
- 09\2011 Moore, S. Solar Power and Placemaking: Ethical Dimensions. Ethics Education in Science and Engineering. National Academy of Engineering. Washington, DC.
- 08\2011 Moore, S. Visualizing Solar Power Sites. Western Energy Policy Research Conference. Boise, ID.
- 04\2011 Moore, S. Visualizing Solar Power Sites. STGlobal Conference. Washington, DC.
- 04\2010 Moore, S. The Role of Social Movement Organizations in the Energy Innovation System. STGlobal Conference. Washington, D.C.
- 05\2005 Moore, S. and Lowenthal, J. Supernova Search in Nearby Galaxies. Presented at Smith Celebrating Collaborations Research Poster Session, Northampton
- 05\2003 Moore, S. and Valandingham, K. Photometry of Eclipsing Binary Stars UZ-Leo and AC-Boo. Poster. Presented at Biosphere Student Poster Session, Oracle, AZ.

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## Invited Presentations

- 04\2017 Moore, S. Cybersecurity in International Grids. Invited speaker, Student Senate panel on cybersecurity, James Madison College
- 04\2017 Student Pugwash USA Workshop Co-Organizer "Space: Governing the Galaxy", Purdue University.
- 03\2017 Moore, S. Autonomous Vehicles: Liability and Regulation. GLITTH Briefing on Autonomous Vehicles: Where Research and Innovation Hit the Road, Michigan State University.
- 03\2017 Moore, S. Sustainable Energy Transformations for Michigan, Keynote Speaker, Keep Making Peace Climate Change Conference.
- 02\2017 Moore, S. Geopolitics of Energy. Foreign Policy Association Great Decisions Session, Peoples Church, East Lansing, MI, Invited Speaker
- 02\2017 Student Pugwash USA Workshop Co-Organizer "Energy Poverty in a Carbon Constrained World", James Madison College.

- 11\2016 Moore, S. Panelist on Dakota Access Pipeline, James Madison College.
- 2\2016 Moore, S. Social Science Research on Energy. Guest Speaker in Women in Science and Engineering program at South Dakota School of Mines and Technology. Rapid City, South Dakota.
- 8\2014 Moore, S. 'A New Morocco': Rebuilding a Nation-state through Renewable Energy. Energy and Society Workshop on National Energy Politics and Our Global Future. Tempe, AZ.
- 6\2013 Moore, S. Energy Integration between Morocco and Europe. Young Arab Policy Analysts Network meeting. Rabat, Morocco.
- 8\2013 Moore, S. The Life of a Vision: The Desertec Industrial Initiative. Institute for Advanced Sustainability Studies Guest Speaker. Potsdam, Germany.
- 7\2013 Moore, S. The Life of a Vision: The Desertec Industrial Initiative. RWTH Aachen University Guest Speaker. Aachen, Germany.
- 04\2013 Moore, S. Solar Energy & Ethics. National Institute on Energy, Ethics, and Society.
- 04\2013 Moore, S. Visions for a Sustainable Energy System. QESST Staff meeting.
- 02\2012 Moore, S. Assessing Social Sustainability in Energy Systems. ASU Social Sustainability Workshop. Tempe, AZ.
- 02\2012 Moore, S. Science & Technology Policy in the Nonprofit Sector. Professional Science Masters in Science & Technology Policy Speakers Series. Arizona State University. Tempe, AZ.
- 11\2011 Miller, C., Dirks, G., Moore, S. Expert Panel. Arizona's Energy Future: Energy Tradeoffs. Arizona Town Hall meeting on Arizona's Energy Future.
- 11\2010 Moore, S. Social Movement Organizations, Place-making, and the Production of Space for Solar Power. HSD Colloquium on Science & Technology in Modern Societies. Arizona State University.
- 03\2011 Shangraw, R.; S. Moore; & G. Raudenbush. Megaprojects at Major U.S. Research Universities: An Evolving Model. Big Science Seminar, Arizona State University.
- 08\2010 Moore, S. A good plot of land for solar power? The Role of Activists in Renewable Energy Siting. Consortium for Science, Policy, and Outcomes Retreat.
- 07\2010 Moore, S. Risk, Oil, and Planning: Beyond Deepwater Horizon. STPI Brief-out.
- 01\2009 Moore, S. and Conz, D. Tubes in the Desert Focus Group Backstory. Presented at the Center for Nanotechnology in Society All Hands Meeting, Tempe, AZ.
- 04\2007 Moore, S. and Bess, C. Organizing Science, Technology, and Society Events on Campus. Panelist at Student Pugwash 14th National Conference, Washington, DC.
- 03\2007 Moore, S. Starting a Student Pugwash chapter on campus. Presented at the Carnegie Mellon University Student Pugwash Conference, Pittsburgh, PA.

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## Service to the Field and Community

- 2010\current **Journal of Science, Policy, and Governance.**  
Editorial Board 2010-2012, Governing Board 2012- current
- 05\10- **STGlobal Consortium**, Conference Organizing Committee.
- 05\12 Assisted with conference organizing for graduate student science and technology policy conference held annually in Washington, DC. Served as transitional chair between conferences.
- 09\10- **ASU Spirit of Service Scholarship mentor.**
- 05\11 Mentored high school scholars organizing a 5-K run\walk to end violence in their high school.

- 04\07- **Student Conservation Association**, Alumni Council Member.
- 04\09 Organized SCA's first alumni-run service project and recruiting events. Assisted with organizing climate change science track at national 500-student conference. Contributed to strategic planning.
- 09\04- **Seymour Planetarium, Volunteer**, Springfield, Massachusetts.
- 05\05

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## Professional Development

- 09\12- **Preparing Future Faculty**, Arizona State University.
- 05\13 One-year program designed to aid students in becoming an outstanding faculty member through overview of life on the academic job market and pre-tenure years. Includes various professional development activities.

### **Graduate College Professional Development Workshops**, Arizona State University.

Attended the following professional development workshops: Preparing for the Academic Job Search, Teaching Assistant Development, Reading Academic Job Ads, Constructing Teaching Portfolios I & II, Writing Effectively: The Art of Argument, Writing Effectively: Clear and Effective Sentences.

### **Workshops Attended**

- Oct 2013 Desert Power Industrial Initiative Conference, Rabat, Morocco
- Jan 2013 Energy Access and Climate Change Workshop, Washington, DC
- July 2012 Consortium for the Science of Sociotechnical Systems Workshop. Santa Fe, NM
- May 2012 Inst. for Development Studies Summer School, Pathways to Sustainability, Univ. of Sussex
- March 2011 Emerge, Humanist Narratives for Energy Visioning Workshop, Tempe, AZ
- Jan 2011 Climate Change Education Partnership Workshop, Washington, DC
- Nov 2011 Desertec Industrial Initiative Annual Meeting, Cairo, Egypt
- Nov 2011 Worldwide Wind Energy Conference Annual Meeting, Cairo, Egypt
- Nov 2011 Volunteer, Solar Praxis Conference, Phoenix, AZ
- June 2011 Climate Change Education Partnership Meeting, National Academies, Irvine, CA
- March 2011 BLM Solar PEIS Public Meetings, Phoenix, AZ
- July 2009 International Student and Young Pugwash meeting, Pugwash, Nova Scotia
- June 2009 Initial meeting of the heads of the National Science and Technology Policy Council, Washington DC
- Aug 2009 President's Council of Science Advisors Meeting, National Academies, Washington DC
- Oct 2009 Society for the Social Studies of Science Annual Meeting, Washington, DC
- Jan 2009 Energy Visioning Workshop, Arizona State University, Tempe, AZ
- Jan 2009 Student Forum on Science and Technology Policy, National Academies, Washington, DC
- Dec 2008 North American Energy Alliance meeting, ASU Tempe AZ
- Oct 2009 Center for Nanotechnology in Society Visioning Workshop

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## Professional Memberships

Academic Network of the International Renewable Energy Learning Partnership of the International Renewable Energy Agency, Founding Member

Society for Social Studies of Science

Sigma Xi Scientific Research Society  
American Association for the Advancement of Science

## Language Skills

French: Proficient in speaking, reading, and writing.

Arabic: Proficient in the script and sounds. Very basic speaking skills in Modern Standard Arabic.