

# Curriculum Vitae: Ryan Shelby, PhD

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<b>Education:</b>	<b>PhD, Mechanical Engineering</b> , University of California, Berkeley	<b>2013</b>
	Major Field: Design, Minors: Management of Technology & Energy Science Policy	Berkeley, CA, USA
	<b>MS, Mechanical Engineering</b> , University of California, Berkeley	<b>2008</b>
	Major Field: Design, Engineering and Business for Sustainability Certificate	Berkeley, CA, USA
	<b>BS, Mechanical Engineering</b> , Alabama Agricultural & Mechanical University	<b>2006</b>
	Major Field: Propulsion Systems	Normal, AL, USA

## Dissertation Research:

Co-Designing Sustainable Communities: The Identification and Incorporation of Social Performance Metrics in Native American Sustainable Housing and Renewable Energy System Design  
Principal Advisor(s): Dr. Alice Agogino, Mechanical Engineering; Dr. Daniel Kammen, Energy Resources Group

## Skills & Expertise:

- Energy Modeling & Systems Design (HOMER, DER-CAM, GridLAB-D)
- Sustainable Development & Energy Poverty Policy
- Energy & Environmental Policy (NEPA, CAFE, ITC, PTC)
- Climate Change Mitigation & Adaptation
- User Needs Analysis
- Community-Based Design Research
- Energy and Water Efficiency
- Life Cycle Assessment (TRACI, SimaPro)

## Professional Experience:

### **United States Agency for International Development (USAID) Energy Engineering Advisor**

**Washington, DC  
Dec. 2013-Current**

- Served as a Contracting Officer Representative (COR) and Program Manager for ~ \$6 million of grants associated with the \$47.1 million multi-donor funded Powering Agriculture: Energy Grand Challenge for Development initiative
- Lead the development of Powering Agriculture solicitation for public-private alliances to support the scaling of clean energy solutions to increase smallholder farmers' agricultural productivity and/or income in developing countries
- Co-designed the Powering Agriculture website, newsletter, and communication/outreach strategy
- Provided technical support to USAID's Bureau for Economic Growth, Education and Environment (E3) & USAID Missions related to power sector reforms, energy access programs, decentralized energy projects, leveled cost of energy estimates, cost reflective tariffs design, and mini grids design in Sub Saharan Africa and other emerging regions
- Conducted technical and financial due diligence on the private-sector partners of the Power Africa Beyond the Grid sub-initiative to help increase private sector investment in emerging energy markets in target countries
- Serve on technical review panels for USAID's Development Innovation Ventures (DIV), Middle East Regional Cooperation (MERC), Office of the Global Climate Change, and Office of American Schools and Hospitals Abroad (ASHA) to aid in determination of funding recommendations for the Office of Acquisition and Assistance (OAA).
- Represented USAID in interagency and international meetings with BMZ, GIZ, SIDA, DOS, USDA-FAS, DOE, & World Bank on clean energy solutions, energy access, minigrids, and decentralized energy projects.

### **Community Assessment of Renewable Energy and Sustainability (CARES) Co-Founder & Program Manager**

**Berkeley, CA  
Nov. 2007-Dec 2013**

- Oversaw development of climate change adaptation and sustainable development strategies for Native American tribes in CA
- Served as principal liaison to stakeholders within UC Berkeley and maintained relations with 7 Native American nations
- Led 15 person engineering team for the Pinoleville Pomo Nation's (PPN) culturally inspired, sustainable housing project that incorporated AIA, LEED, and Energy Star green building design principles, codes, and technologies
- Identifying cost savings opportunities related to lighting, mechanical and electrical systems for housing designs
- Worked with EPA Region 9 office to co-design and implement green building codes for the PPN's sustainable homes
- Conducted feasibility study and created designs for utility scale renewable energy power systems (1MW – 5MW solar PV)
- Conducted site assessments (substation and transmission line location), climate change risk assessments, technology components lists, estimated ROI, and estimated energy capacity for solar, wind, microhydro, and biogas systems
- Worked with tribal partners to secure ~\$1.4 million in funding for PPN homes & funding from the 2013 START Renewable Energy Project Development program for a PPN solar utility based on previous feasibility studies
- Oversaw the transition of CARES in 2010 to a seed funded research center in UC Berkeley's i4Energy Center in CITRIS

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## Professional Experience:

**Millennium Challenge Corporation – Arizona State University  
MCC-ASU Science, Technology, & Innovation Fellow**

**Washington, DC  
Jan. 2013-July 2013**

- Identified electricity grid extension and minigrad designs options for the expansion of electricity services in six Sub Saharan African (SSA) countries: (1) Sierra Leone, (2) Liberia, (3) Ghana, (4) Benin, (5) Tanzania, and (6) Malawi
- Developed case studies on the lessons learned from the electrification efforts of Brazil, China, Nepal, and Vietnam
- Estimated levelized cost of energy for renewable energy systems in minigrad & electricity grid extension configurations
- Conducted feasibility study on organic feedstock and created designs for an anaerobic digestion system (300kW-1MW)
- Developed policy interventions related to cost reflective tariffs and independent power producers for mini-grids
- Represented MCC in interagency and international meetings with USDA-FAS, DOE, & World Bank on mini-grids

**National Academy of Engineering**

**Washington, DC**

**J. Herbert Hollomon and Christine Mirzayan Science & Technology Policy Fellow Aug. 2012-January 2013**

- Developed policy briefs and actor networks on election violence, crisis mapping, and internally displaced persons in Libya, Haiti, & Kenya for the NAE & U.S. Institute of Peace Roundtable on Technology, Science & Peacebuilding
- Identified system engineering applications for foreign affairs and peace building endeavors in Libya, Haiti, and Kenya
- Performed a preliminary review of the alignment of the US based undergraduate and graduate programs to attributes listed in the NAE's *The Engineer of 2020* and *Educating the Engineer of 2020* reports

**Intel Corporation**

**Hillsboro, OR**

**Logic Facilities Technology Division Intern**

**June 2009-Aug. 2009**

- Developed energy model to determine electricity and natural gas consumption of D1D Fabrication Facility
- Determined energy cost savings of D1D's design compared to ASHRAE design standards using Energy Plus & DOE-2
- Determined the number of LEED Energy & Atmosphere credited earned given D1D's design
- Identified areas of opportunities for improving the sustainability of the potential D1Z Fabrication Facility

**Lawrence Livermore National Laboratory**

**Livermore, CA**

**Technology Resources Engineering Division Intern**

**May 2007 – June 2008**

- Developed designs for a (L)H<sub>2</sub> cryogenic capable pressure vessel (CCPV) for use in a hydrogen powered Toyota Prius
- Created a program to generate the elastic properties of the carbon fiber/epoxy composite laminate layer (CF/ECLL)
- Created finite element models and performed stress and thermal analyses of each pressure vessel design
- Determined that the spherical vessel experienced the least stress amongst the designs regardless of CF/ECLL usage
- Created designs for a modular CCPV with a spherical inner vessel and a cubic vacuum outer jacket

**Lawrence Livermore National Laboratory**

**Livermore, CA**

**New Technologies Engineering Division Intern**

**June 2006 – Aug. 2006**

- Conducted a thermal endurance test of a (L)H<sub>2</sub> cryogenic capable pressure vessel using a (L)N<sub>2</sub> surrogate
- Created a thermodynamic model of the pressure vessel to simulate vessel temperature increase
- Documented the pressure vessel's (L)N<sub>2</sub> boil off loss during the thermal endurance test
- Determined the heat leak that the pressure vessel experienced during the thermal endurance test
- Determined that radiation was responsible for ~90% of the pressure vessel's heat leak

**Lawrence Livermore National Laboratory**

**Livermore, CA**

**Manufacturing & Materials Engineering Division Intern**

**May 2005 – Aug. 2005**

- Performed a feasibility study for incorporating a cutting oil delivery system through the body of a flycutter
- Developed equations for the pressure inside the oil channel and the delivery system's oil channel and orifice size
- Documented the dependence of the oil channel and orifice size upon the flycutter's operational parameters and its effect on the overall performance of the cutting oil delivery system
- Created a finite element model of the platform used to elevate precision optics for diamond turning

**National Science Foundation Engineering Research Center**

**University of Michigan**

**SROP and Undergraduate Researcher**

**June 2004 – July 2004**

- Utilized ANSYS and other FEA packages to create a solid model of the Turbine Blade Inspection Machine (BIM)
- Explored errors due to the dynamic motion of the system and errors due to environmental/thermal effects
- Performed a modal analysis of the BIM to determine its natural frequencies and mode shapes
- Collected data from Modal Analysis to be used in the Transient Dynamic Analysis of the BIM

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## Professional Experience:

**National Aeronautics and Space Administration  
Safety and Mission Assurance Intern**

**Huntsville, AL  
May 2003 – July 2003**

- Studied the vision and mission of the Safety and Mission Assurance Department
- Studied the program objectives of the Safety and Mission Assurance Department's X-37 Project
- Merged X-37 parts list spreadsheets into the Mother of All Parts List (MOAPL)
- Analyzed and categorized parts by the effect of their failure upon the X-37 vehicle's survivability
- Completed basic IT Security certification and other Self-Study Learning Center certifications

## Teaching Experience:

**E10: Introduction to Design and Analysis (ME Module)  
Graduate Student Instructor**

**University of California, Berkeley  
Fall 2011**

- Lead GSI for the freshmen Wednesday laboratory section in Fall 2011
- Conducted training sessions on patents: patentability, dependent and independent claims, and infringement
- Conducted training sessions on solid modeling with Autodesk Inventor
- Conducted training sessions on engineering ethics, team dynamics, and new product development process

**E10: Introduction to Design and Analysis (Eng. Leadership Module)  
Graduate Student Instructor**

**University of California, Berkeley  
Spring 2011**

- Conducted training sessions on engineering design process and methodology
- Conducted training sessions on personal leadership, time management, and team communication strategies
- Coordinated 10 engineering team project (37 students) implementations at Lawrence Hall of Science for K-12 patrons and children
- Designed pre-and post- self-assessment surveys to determine the statistical significance of the confidence levels of E10 students relates to eleven National Academy of Engineering (NAE) and ABET engineering traits
- Determined that incorporating leadership studies into a freshman-level engineering course correlated with increased confidence in students' technical and professional abilities at the end of the course

**E39F: CARES Freshman/Sophomore Seminar  
Graduate Student Instructor**

**University of California, Berkeley  
Fall 2010**

- Conducted training sessions on engineering design process for entry level engineering and non engineering students
- Conducted training sessions on wind energy and microhydro systems for off grid applications at Pinoleville Pomo Nation
- Conducted training sessions on solar thermal and photovoltaic systems for on and off grid applications at Pinoleville Pomo Nation

**E10: Introduction to Design and Analysis (ME Module)  
Graduate Student Instructor**

**University of California, Berkeley  
Spring 2008, Spring 2009, Fall 2010**

- Lead GSI for the Tuesday laboratory section in Spring 2008, Spring 2009, and Fall 2010
- Coordinated the lecture and demonstration of hydrogen powered Pruis by Lawrence Livermore National Laboratory
- Created partnership with the Pinoleville Pomo Nation (PPN) to provide sustainability and energy projects
- Led E10 students in the creation of a culturally informed, sustainable housing design adopted by the PPN

**ME 135: Design of Microprocessor-Based Mechanical Systems  
Graduate Student Instructor**

**University of California, Berkeley  
Spring 2010**

- Conducted training sessions on National Instrument's LABVIEW software
- Aided students in the modifications of Arduino and Keil microcontrollers
- Aided students in the implementation of discrete PID controller for position control of a single motor

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## Selected Publications (#, work in progress; ~, under review; \*, accepted):

- **Shelby, R.** (2014). "Electricity Access Expansion and Economic Growth via Decentralized Micro- and Mini-grids in Sub Saharan Africa: A Methodological Framework Based on China, Vietnam, Nepal, and Brazil". *Energy Policy* #
- **Shelby, R.** (2013). "Co-Designing Sustainable Communities Using Indigenous Knowledge: Pinoleville Pomo Nation Partnership". 2013 Society for Social Studies of Science (4S) Annual Meeting\*
- Edmunds, D., **Shelby, R.**, James, A., Steele, L., Baker, M., Perez, Y., and TallBear, K. (2013). "Tribal Housing, Co-Design & Cultural Sovereignty". *Science, Technology, & Human Values*, 38(6), pp. 801-828.
- Farzana, A., Wang, J., **Shelby, R.**, Patten, E., and Pruitt, L. (2013). "The Impact of a First-Year Leadership and Service Learning Module: A Follow-up Study", In *Proceedings of 2013 American Society of Engineering Education Annual Conference and Exposition*, June 23-26, 2013, Atlanta, Georgia, USA
- **Shelby, R.**, Patten, E., Farzana, A., Pruitt, L., Walker, G., and Wang, J. (2013). "Implementation of Leadership and Service Learning in a First-Year Engineering Course Enhances Professional Skills", *International Journal of Engineering Education*, 29(1), pp. 1-14
- **Shelby, R.**, Perez, Y., and Agogino, A. (2012). "Partnering with the Pinoleville Pomo Nation: Co-Design Methodology Case Study for Creating Sustainable, Culturally Inspired Renewable Energy Systems and Infrastructure. *Sustainability*. 4(5), pp. 794-818
- Wang, J., Patten, E., **Shelby, R.**, Farzana, A., Pruitt, A. (2012). "Leadership and Service Learning Improves Confidence of Engineering Skills in Women", In *Proceedings of 2012 American Society of Engineering Education Annual Conference and Exposition*, June 10-13, 2012, San Antonio, Texas, USA
- **Shelby, R.**, Perez, Y., and Agogino, A. (2011). "Co-Design Methodology for the Development of Sustainable and Renewable Energy Systems for Underserved Communities: A Case Study with the Pinoleville Pomo Nation", In *Proceedings of ASME 2011 International Design Engineering Technical Conferences*, Washington, DC
- Oehlberg, L., **Shelby, R.**, and Agogino, A. (2010). "Sustainable Product Design: Designing for Diversity in Engineering Education", *International Journal of Engineering Education*, 26(2), pp. 489-498
- Schultz, T., **Shelby, R.** and Agogino, A. (2010). "The Co-Design of Water and Energy Efficient Sustainable Housing with the Pinoleville Pomo Nation", In *Proceedings of the ASME International Sustainability Conferences*, Phoenix, Arizona

## Conference Talks (\*) and Guest Lectures (~):

- "System Thinking Approaches to Co-Designing Sustainable Communities", EMSE 6740 Systems Thinking and Policy Modeling, Nov. 29, 2012, Engineering Management and Systems Engineering, George Washington University ~
- "The Role of End Users and Communities in Co-Designing for Sustainability", International Master Program: Renewable Energy Management, Master of Science, 1. Semester, Module Research Skills, March 5, 2012, University of Freiburg, Germany~
- "Co-Designing Sustainable Communities: The Identification and Incorporation of Social Performance Metrics in Native American Sustainable Housing and Renewable Energy System Design", Energy and Resources Group, ER295 Spring 2012 Colloquium Series, February 29, 2012, University of California, Berkeley~
- "Partnering with the Pinoleville Pomo Nation: A Co-Design Approach for the Development of Culturally Inspired, Sustainable Housing", das Haus University Day & Talks, February 24, 2012, German American Chamber of Commerce, San Francisco, CA~
- "The Co-Production of Sustainable Communities: A Case Study with the Pinoleville Pomo Nation", ESPM 151: Society, Environment, and Culture, February 7, 2012, University of California, Berkeley~
- "Pinoleville Pomo Nation Renewable Energy Feasibility Study Status", (with D. Smith), 2011 DOE Tribal Energy Program Review, November 14-18, 2011, Denver, CO\*
- "Co-Design and Sustainability", TEDxEuclidAve: Achieving Social Impact, October 22, 2011, Center for Information Technology Research in the Interest of Society (CITRIS), University of California, Berkeley~

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## Conference Talks (\*) and Guest Lectures (~):

- "Co-Design Methodology for the Assessment and Prioritization of Social Performance Metrics with Native American Nations", 2011 Future Faculty Career Exploration Program, September 30, 2011, Golisano Institute of Sustainability, Rochester Institute of Technology~
- "Partnering with the Pinoleville Pomo Nation: A Co-Design Approach to Creating Sustainable Communities", 2011 Renewable Energy Self Sufficiency Conference, September 14-16, 2011, University of Freiburg, Germany\*
- "Designing Culturally Conscious, Sustainable Tribal Housing", (with M. Baker, D. Edmunds, D. Eisenberg), 2011 National Healthy Homes Conference, June 20-23 2011, Denver, CO\*
- "Cross Disciplines to Cross Cultures in Sustainable Social Design", (with A. Agogino, D. Edmunds, Y. Perez, A. James), The Death + Life of Social Factors: Reexamining Behavioral and Cultural Research in Environmental Design, April 29 – May 1, 2011, University of California, Berkeley\*
- "Pinoleville Pomo Nation Renewable Energy Feasibility Study Status", (with D. Edmunds), 2009 DOE Tribal Energy Program Review, November 16-20, 2009, Denver, CO\*
- "Tribal Sovereignty in the Pinoleville Pomo Nation: Sustainable Housing and Renewable Energy Technologies", I181 Technology and Poverty, February 18, 2010, University of California, Berkeley~
- "Reviving the Oldest Approach to Sustainable Design: How Cultural Values and a Sense of Place Lead to Green Building Design", (with M. Baker, K. TallBear, D. Edmunds), 2009 U.S. Green Building Council Greenbuild Conference and Expo, Session OR02, November 12, 2009\*
- "Co-Productions of Environmental Science, Technology, and Indigenous Governance: The Pinoleville Pomo Nation – UC Berkeley Partnership to Co-Design Culturally Informed, Sustainable Housing", (K. TallBear, D. Edmunds, A. James) Native American and Indigenous Studies Association Conference, May 21-23 2009, Minneapolis, MN\*
- "Thermal Endurance of a Cryogenic Capable Pressure Vessel for (L)H<sub>2</sub> Fueled Toyota Prius ", Proceedings of the National Hydrogen Association Annual Conference 2008, 2008\*

## Grants/Fellowships/Scholarships:

- Steidel Scholarship, Department of Mechanical Engineering, University of California, Berkeley, 2010
- Native American Community Assessment of Renewable Energy and Sustainability "NATIVE CARES" Grant, 2010
- University of California, Berkeley Graduate Division Summer Grant, 2010
- Alfred P. Sloan Ph.D. Fellowship Recipient, 2009
- Academic Excellence Alliance Collaborative Research Program Grant, King Abdullah University of Science and Technology US (KAUST US), 2008
- "CARES – Community Assessment of Renewable Energy and Sustainability", National Collegiate Inventors and Innovators Award, 2007
- Thomas and Marjorie Dwelle Fellowship Recipient, 2007
- Department of Energy Computational Science Scholarship Recipient, 2005
- Alabama A&M University Level 1 Academic Scholarship Recipient, 2002

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## Honors & Awards:

- 2012 Denise D. Denton Best Paper Award, ASEE Women in Engineering Division, 2012
- Graduate Fellows Award, Center for Research on Social Change, 2011-2012
- 2<sup>nd</sup> Place, Bid Ideas @ Berkeley Competition, Social Justice and Community Engagement, 2011
- Finalist, CITRIS White Paper, eCoLoc: Web-based Platform for Communicating Place and its People, 2011
- Management of Technology Certificate, University of California, Berkeley, 2010
- Chancellor's Awards for Public Service, Community Assessment of Renewable Energy and Sustainability - Pinoleville Pomo Nation Partnership, 2010
- Outstanding Graduate Student Instructor Award, University of California, Berkeley, Department of Mechanical Engineering, 2009-2010
- Honorable Mention, Bears Breaking Boundaries Competition, Curricular Innovations, Pinoleville Pomo Nation Project, 2009
- Finalist, Bears Breaking Boundaries Competition, Information Technology, CARES (Community Assessment of Renewable Energy and Sustainability Project, 2009
- California Legislature Assembly Certificate of Recognition, UC Berkeley, 2008

## Public Engagement, Service, and Outreach:

- Northrop Grumman/Diversity Leadership Program Scholarship Recipient, 2004
- NASA Engineering & Safety Center Academy Space Propulsion Systems Certificate of Completion, 2003
- National Academies Job Squad Volunteer, Community for Creative Non-Violence (CCNV), Sept. 2012- Jan. 2013
- Techbridge Role Model, CO<sub>2</sub> Dragster Design Session, Oakland Unity High School, March 13, 2012
- Workshop Leader, Hydrogen Fuel Cell Design Session, University of California, Berkeley, Center for Scalable and Integrated Nanomanufacturing (SINAM) Outreach Event, May 2011
- Workshop Leader, We Catch the Sun While It's Out: Solar Car Session, The Tuolumne Band of Mewuk Indians Acorn Festival, September 2010
- Workshop Leader, Jitterbug Biomimicry Design Session, University of California, Berkeley, Center for Scalable and Integrated Nanomanufacturing (SINAM) Outreach Event, July 2010
- Guest Speaker, Alabama School of Mathematics and Science 2010 Alumni Weekend, April 2010
- Workshop Leader, Alternative and Renewable Energy Transportation Design Session, Prospect Sierra School Earth Day Celebration, April 2010
- Guest Speaker, E-Week: Engineering 4 Kids, University of California, Berkeley, March 2010
- Committee Member, Equity Diversity and Inclusion (EDI) Committee, Department of Mechanical Engineering, University of California, Berkeley, Spring 2010 – Spring 2012
- Student Liaison, Black Graduate Engineering and Science Students, University of California, Berkeley, Fall 2007 – Spring 2008, Fall 2009 – Spring 2010
- Advisory Committee Member, American Indian Graduate Program, University of California, Berkeley, Fall 2010 – Spring 2012

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## Professional Development:

- Participant, 2012 NSF Minority Faculty Development Workshop: Engineering Enterprise and Innovation, National Institute for Faculty Equity, Georgia Tech Institute of Technology, 2012
- Participant, 2011 Future Faculty Career Exploration Program, Golisano Institute of Sustainability, Rochester Institute of Technology (RIT), 2011
- Participant, Summer Institute of Civic Studies, Jonathan M. Tisch College of Citizenship and Public Service, Tufts University, 2011
- Participant, Promoting Multicultural Excellence in the Academy: National Summer Institute for Doctoral Students of Color and Women, University of Denver, 2010

## References:

- Dr. Allen Eisendath, Director, Energy Division Chief, U.S. Agency for International Development, 1300 Pennsylvania Ave, NW Washington, DC 20523, [aeisendath@usaid.gov](mailto:aeisendath@usaid.gov)
- Dr. Himesh Dhungel, Director, Infrastructure-Energy Corporate Initiatives, Millennium Challenge Corporation, 875 Fifteenth St., NW Washington, DC 20005, [dhungelh@mcc.gov](mailto:dhungelh@mcc.gov)
- Dr. Omar Hopkins, Director, Infrastructure-Department of Compact Operations, Millennium Challenge Corporation, 875 Fifteenth St., NW Washington, DC 20005, [hopkinsos@mcc.gov](mailto:hopkinsos@mcc.gov)
- Dr. Proctor Reid, Director, Program Office, National Academy of Engineering, 500 5th Street, NW, Washington, DC 20001, [preid@nae.edu](mailto:preid@nae.edu)
- Mr. Greg Pearson, Senior Program Officer, Program Office, National Academy of Engineering, 500 5th Street, NW, Washington, DC 20001, [gpearson@nae.edu](mailto:gpearson@nae.edu)
- Dr. Alice Agogino, Roscoe and Elizabeth Hughes Professor of Mechanical Engineering, University of California at Berkeley, 415 Sutardja Dai Hall (CITRIS Building), Berkeley, CA 94720-1764, [agogino@berkeley.edu](mailto:agogino@berkeley.edu)
- Dr. Lisa Pruitt, Lawrence Talbot Professor of Mechanical Engineering, University of California at Berkeley, 5134 Etcheverry Hall, Berkeley, CA 94720, [lpruitt@me.berkeley.edu](mailto:lpruitt@me.berkeley.edu)
- Dr. Daniel Kammen, Class of 1935 Distinguished Professor of Energy, Energy and Resources Group, University of California at Berkeley, 310 Barrows Hall #3050, Berkeley, CA 94720, [kammen@berkeley.edu](mailto:kammen@berkeley.edu)
- Dr. Kimberly TallBear, Assistant Professor of Science, Technology, and Environmental Policy, University of California at Berkeley, 130 Mulford Hall, #3114, Berkeley, CA 94720, [kimberly.tallbear@berkeley.edu](mailto:kimberly.tallbear@berkeley.edu)
- Dr. David Edmunds, Environmental Director, Pinoleville Pomo Nation, 500 Pinoleville Rd # A, Ukiah, CA 95482, [david.s.edmunds@gmail.com](mailto:david.s.edmunds@gmail.com)