

A. GENERAL INFORMATION:

Name: Renee Ann Richer
E-mail address: rricher@richerenvironments.com

B. EDUCATIONAL BACKGROUND:

Ph.D.	Biology	Harvard University	2004
B.A., with honors	Biology	University of Chicago	1994

C. PROFESSIONAL POSITIONS AND EMPLOYMENT:

Assistant professor	8/14 – present	University of Wisconsin, Marinette 750 W. Bay Shore Street Marinette, WI 54143
Visiting Associate Professor	10/13- 6/14	Weill Cornell Medical College in Qatar P.O. Box 24144 Doha, Qatar
Visiting Assistant Professor	7/07- 10/13	Weill Cornell Medical College in Qatar P.O. Box 24144 Doha, Qatar
Assistant Professor	3/05 – 12/06	American University of Armenia Baghramian Avenue Yerevan, Armenia
Director	3/05 – 12/06	Environmental Conservation and Research Center American University of Armenia Baghramian Avenue Yerevan, Armenia

D. HONORS AND AWARDS:

2014	Teaching Award	Weill Cornell Medical College in Qatar
2013	Teaching Award	Weill Cornell Medical College in Qatar
2011	Best Environmental Research Project	Qatar Foundation Annual Research Forum
2011	Teaching Award	Weill Cornell Medical College in Qatar
2010	Teaching Award	Weill Cornell Medical College in Qatar
2009	Teaching Award	Weill Cornell Medical College in Qatar
2008	Teaching Award	Weill Cornell Medical College in Qatar
2007	Whitley Award	U.K. Whitley Fund for Nature
2002	Teaching award	Derek Bok Award, Harvard University

E. TEACHING ACTIVITIES:

2015	Biology 191, 162	primary instructor, UW Marinette
2014	Biology 101, 180	primary instructor, UW Marinette
2014	Biology 1091,	primary instructor, WCMCQ
2013	Biology 1091, 1090	primary instructor, WCMCQ
2012	Grant Writing	co-taught
2012	Biology 1091, 1090, 1101	primary instructor, WCMCQ
2011	Grant Writing	co-taught
2011	Biology 1091, 1090	primary instructor, WCMCQ
2010	Biology 1091, 1090	primary instructor, WCMCQ
2009	Biology 091, 090	primary instructor, WCMCQ
2008	Biology 091, 090	primary instructor, WCMCQ
2007	Biology 090,	primary instructor, WCMCQ
2006	Environmental Field Study	primary instructor, AUA
2006	Independent Res. on Env. Topics	primary instructor, AUA
2005-6	Env. Science and Conservation	primary instructor, AUA
2006	Ecological Economics	primary instructor, AUA

F. BIBLIOGRAPHY:

a. Articles in professional peer-reviewed journals:

- 2015 Richer, R. A. (2015). Industrial growth and anthropogenic pollutants in arid and hyper-arid environments. *Journal of Arid Environments*, 112, 145-146.
- 2015 Metcalf, J. S., Banack, S. A., Richer, R., & Cox, P. A. (2015). Neurotoxic amino acids and their isomers in desert environments. *Journal of Arid Environments*, 112, 140-144.
- 2015 Richer, R., Banack, S. A., Metcalf, J. S., & Cox, P. A. (2015). The persistence of cyanobacterial toxins in desert soils. *Journal of Arid Environments*, 112, 134-139.
- 2014 Chatziefthimiou, A. D., Richer, R., Rowles, H., Powell, J. T., & Metcalf, J. S. (2014). Cyanotoxins as a potential cause of dog poisonings in desert environments. *Veterinary Record*, 174(19), 484-485.
- 2014 Renee A. Richer. (2014). Sustainable development in Qatar: Challenges and opportunities. *QScience Connect: Vol. 2014 1*, 22.
- 2014 Dan Cogălniceanu, Aurora M Castilla, Aitor Valdeón, Alberto Gosá, Noora Al-Jaidah, Ali Alkuwary, Essam O. H. Saifelnasr, Paloma Mas, **Renee Richer**,

- Ahmad Amer Mohd Al-Hemaidi . A preliminary report on the distribution of lizards in Qatar. *ZooKeys* 373 (2014) : 67-91
- 2013 Aitor Valdeón, Aurora M. Castilla, Dan Cogălniceanu. Alberto Gosá, Ali Alkuwary, E O H Saifelnasr, Elsa Naumann, Paloma Mas-Peinado, **Renee Richer**, Ahmad Amer Mohd Al-Hemaidi On the presence and distribution of the Gulf sand gecko, *Pseudoceramodactylus khobarensis* Haas, 1957 (Reptilia: Squamata: Gekkonidae) in Qatar *QScience Connect*: Vol. 2013, 34.
- 2013 Louge, M. Y., A. Valance, A. Ould el-Moctar, J. Xu, A. G. Hay, and **R. Richer**, Temperature and humidity within a mobile barchan sand dune, implications for microbial survival, *J. Geophys. Res.* 118: 4, 2392–2405
- 2012 J.S. Metcalf, **R. Richer**, P.A. Cox and G.A. Codd. Cyanotoxins in desert environments may present a risk to human health. *Sci. Total Env.* 421-422: 118–123
- 2012 **R. Richer**, D. Anchassi, I. El-Assaad, M. El-Matbouly, F. Ali, I. Makki and J.S. Metcalf. Variation in the coverage of biological soil crusts in the State of Qatar *J. Arid Env.* 78: 187-190
- 2011 A.M. Castilla AM, **R. Richer**, A. Herrel, A. Conkey, J. Tribuna and M. Al-Thani. First evidence of scavenging behaviour in the herbivorous lizard *Uromastix aegyptia microlepis*. *J. Arid Env.* 75: 671-673
- 2009 P.A. Cox, **R. Richer**, J.S. Metcalf, S.A. Banack, G.A. Codd, and W.G. Bradley. Cyanobacteria and BMAA Exposure from Desert Dust—a Possible Link to Sporadic ALS among Gulf War Veterans. *Amyotrophic Lateral Sclerosis* 10:S2, 109-117
- 2008 **R. Richer**. Carbohydrate Manipulation and Leaf Phenology in *Brachystegia spiciformis* Afr. *J. Ecol.* 46(1): 88-95
- 2008 **R. Richer**. Leaf Phenology and Carbon Dynamics in Six Leguminous Trees Afr. *J. Ecol.* 46(1): 556-564
- 2004 P.B. Tomlinson, J.B. Fisher, R.E. Spangler, and **R.A. Richer**. Stem Vascular Architecture in the Rattan Palm *Calamus* (Arecaceae-Calamoideae- Calaminae) *Amer. J. Bot* 88(5): 797-809
- 1997 **R. Richer**, I. Coulson and M. Heath. Foraging Behaviour and Ecology of the Cape Pangolin (*Manis temminckii*) in Northwestern Zimbabwe. *Afr. J. Ecol.* 35:361-369

b. Books, book chapters, and reviews:

- 2009 John Norton, Sara Abdul Majid, Debbie Allan, Mohammed Al Safran, Benno Böer & **Renee Richer**. An Illustrated Checklist of the Flora of Qatar. BrownDown Publications, Gosport, UK
- 2009 **Richer, RA**. “Sustainable Development Challenges in Qatar: Issues and Opportunities.” Background paper for the Qatar Second National Human Development report
- 2009 **Richer, R.A.** Conservation in Qatar: Impact of Increasing Industrialization. Center for International and Regional Studies, Occasional Paper Series, Georgetown University. Updated and reprinted.
- 2008 **Richer, R.A.** Conservation in Qatar: Impact of Increasing Industrialization. Center for International and Regional Studies, Occasional Paper Series, Georgetown University
- 2008 Ecological economics: An Introduction for Non-Majors. *In* Environment and Development: Policies for Our Sustainable Future. Innovative Syllabi for

- University Courses. *Eds.* N. Dronin, **R. Richer**, E. and Timare. Central European University Press
- 2008 Environment and Development: Policies for Our Sustainable Future. Innovative Syllabi for University Courses. *Eds.* N. Dronin, **R. Richer**, E. and Timare. Central European University Press
- 2006 **Richer, R.A.**, D.N. Richer, J.A. Richer A Novel Design for Woodland Canopy Access. *The International Canopy Network Newsletter*, 13(1): 4-5

c. Abstracts:

- 2013 “Walk or Ride on the Cyanobacterial Mats of Inland Sea, Qatar.” Aspasia D. Chatziefthimiou, Eric Deitch, Anthony Hay, Renee A. Richer. Qatar Foundation Annual Research Forum November 2013
- 2013 “A Preliminary Checklist of the Lizards of Qatar” Aurora M Castilla, Aitor Valdeón, Dan Cogălniceanu, Alberto Gosá, Paloma Mas, Ali Alkuwary, Essam O. H. Saifelnasr, Noora Al-Jaidah, Renee Richer 17th SHE European Congress of Herpetology Veszprem (Hungary) 22-27 August 2013
- 2012 “Establishing a Toxins in Desert Environments (TiDE) network in Qatar” R. Richer, S.A. Banack, J.S. Metcalf, P.A. Cox 6th International Conference on Environmental Mutagens in Human Populations, March 2012 Doha Qatar
- 2012 “Exposure to desert cyanobacteria may pose a risk to human health”. J.S. Metcalf, R. Richer, S.A. Banack, P.A. Cox 6th International Conference on Environmental Mutagens in Human Populations, March 2012 Doha Qatar
- 2010 “Cyanotoxin exposure from dust as a risk factor for sporadic ALS among Gulf War Veterans” Cox PA., Richer R., Metcalf JS., Banack SA Codd, G.A. and Bradley WG. Qatar Foundation Annual Research Forum Doha, Qatar December 12-13, 2010
- 2010 “First evidence of scavenging behaviour in the herbivorous lizard *Uromastix aegyptia microlepis*” Castilla AM, Richer R, Herrel A, Conkey A, Tribuna J, Al-Thani M, Chan R. XI Portugal-Spain Congress of herpetology/ XV Spanish herpetological Congress: Amphibians and reptiles toward Global Warming International Congress: 6-9 October 2010, Sevilla, Spain
- 2009 “Cyanobacterial Soil Crust Distribution in the State of Qatar” Renee Richer, Dana Anchassi, Iqbal El-Assaad, Moamena El-Matbouly, Fadwa Fares, James Metcalf, Imad Makki. Presented at the American Geophysical Union Fall Meeting, San Francisco, December 14–18, 2009
- 2009 “Cyanotoxin Exposure as a Risk Factor for Sporadic ALS Among Gulf War Veterans” Paul Cox, James Metcalf, Sandra Banack, Renee Richer, Holly Johnson, Geoffrey Codd, Walter Bradley. 20th International Symposium on ALS/MND December 8-10 2009
- 2007 “Descriptive analysis of the Environmental Impacts Associated with Yerevan wastewater discharge into Hrazdan River.” E. Safari and R. Richer. *The Environment: Survival and Sustainability* February 19-24 2007, Near East University, Northern Cyprus
- 2007 “Requirements for a Sustainable Municipal Solid Waste Management in Yerevan.” E. Safari and R. Richer, *The Environment: Survival and Sustainability* February 19-24 2007, Near East University, Northern Cyprus
- 2007 “Water Availability Does Not Control Timing of Bud Break in African Savannas” Session: Land Surface Phenology, Seasonality, and the Water Cycle American Geophysical Union, December 11-15, 2007 San Francisco, California

2007 "Resistance of *Brachystegia spiciformis* to Carbohydrate and Phenological Manipulation" Session: Savanna Ecosystems: Field Observations and Manipulation Experiments American Geophysical Union, December 11-15, 2007 San Francisco, California

d. Presentations

- 2013 "Cyanobacteria in Qatar: From Transects to Toxins" Toxins in Desert Environments conference February 18-19, 2013 Doha, Qatar
- 2012 "Biomimicry" Qatar Sustainable Building forum. Development, best practice and business opportunities in the design, development and construction of green building in Qatar, June 11-12 Doha
- 2012 "Establishing a Toxins in Desert Environments (TiDE) network in Qatar" R. Richer, S.A. Banack, J.S. Metcalf, P.A. Cox 6th International Conference on Environmental Mutagens in Human Populations, March 2012 Doha Qatar
- 2012 "Exposure to desert cyanobacteria may pose a risk to human health". J.S. Metcalf, R. Richer, S.A. Banack, P.A. Cox 6th International Conference on Environmental Mutagens in Human Populations, March 2012 Doha Qatar
- 2012 "Desert Dust and neurodegenerative disease": Pre-med lecture series, January 2012 Weill Cornell Medical College Qatar
- 2012 "Nouveau Native: Plants for culture and design". Doha Green Building Council November 2011
- 2011 "Biodiversity, Conservation, Restoration and Mitigation" Sustainable Qatar March 7, 2011 Doha, Qatar
- 2010 "Cyanotoxins and neurodegenerative disease: Research in Qatar" Weill Cornell Medical College in Qatar Research Retreat November 6, 2010
- 2010 "Gulf War Syndrome, Amyotrophic Lateral Sclerosis (ALS) and cyanobacterial neurotoxins" Weill Cornell Medical College in Qatar Monthly Research Seminar October 24, 2010
- 2010 "Valuing biodiversity in Qatar" Doha Green building Council September 29, 2010 Doha, Qatar
- 2010 "Valuing biodiversity in Qatar" Humanisation of Cities of Tomorrow September 21, 2010 Doha, Qatar
- 2010 "Sustainable Development Challenges in Qatar: Challenges and Opportunities." Doha Green Sustainability Summit April 11, 2010 Doha, Qatar
- 2009 "From Traditional Knowledge to Phase Trials: The case of Prostratin" Complementary and Alternative Medicine Lecture Series, WCMCQ
- 2009 "Environment in Qatar" Qatar Science and Technology Park Inauguration: Environment Panel
- 2009 "Sustainable Development Challenges in Qatar: Issues and Opportunities." National Seminar on Achieving the Environmental Development Outcomes of the Qatar National Vision 2030
- 2008 "Beauty and the Beast: Environment and Industry in Qatar". Center for International and Regional Studies, Monthly Dialogue Series, Georgetown University Qatar
- 2008 Guest lecturer, "Environment and Epidemic: Ozone and Asthma in Qatar" in the Human Health & Environmental Challenges in the Middle East Fulbright Conference Doha, Qatar
- 2007 "Environmental Degradation and Conservation: Challenges and Prospects" Panel discussion and presentation. "Biodiversity Conservation in Qatar in Light

- of Increasing Industrialization”. Georgetown University School of Foreign Service in Qatar, Center for International and Regional Studies 11/12/07
- 2007 “Creating Significant Learning Experiences” OSI Regional Seminar. Environment and Development: Policies for our Sustainable Future. Sevastopol Ukraine, 8/3/07-8/13/07
- 2006 OSI Regional Seminar. Environment and Development: Policies for our Sustainable Future. Moscow State University, Moscow, Russia. 7/21-8/4/06
- 2006 “Environmental Research in Armenia” INTAS Regional Workshop South Caucasus 2006. Scientific Cooperation and Collaboration. Tbilisi State University, Tbilisi, Georgia 4/19-4/21/06
- 2006 “Teaching Environmental Science in Post-Soviet Republics” OSI Regional Seminar. Environment and Development: Policies for our Sustainable Future. Central European University, Budapest, Hungary 2/22-2/26/06
- 2005 “The Science of Organic” FruitFull Armenia International Organic Agriculture Conference Yerevan, Armenia 11/18/05
- 2005 “Social Change and Agricultural Policy in Zimbabwe”, OSI Regional Seminar. Environment and Development: Policies for our Sustainable Future. Tavrida University, Simferopol, Ukraine 6-7/05
- 2005 “Post Soviet Environmental Issues in Armenia” OSI Regional Seminar. Environment and Development: Policies for our Sustainable Future. Tavrida University, Simferopol, Ukraine 6-7/05,
- 2005 “Habitat Fragmentation” Shikahogh Public Forum, American University of Armenia, Yerevan, Armenia 6/17/05

G. EXTRAMURAL PROFESSIONAL ACTIVITIES:

- 2013 Guest lecturer, field trip leader Qatar Natural History Group
- 2012 Guest lecturer, premedical biology: ecology and evolution
- 2012 Faculty Advisor of the student organization “Green Team” sustainability student club
- 2012 Lab host for Carnegie Mellon University Conservation course students November 20, 2011
- 2012 ASTER lab host Field trip to Umm Tais to measure cyanobacteria net carbon exchange March 2012
- 2012 Journal reviewer African Journal of Ecology
- 2012 Journal reviewer Landscape Research
- 2012 Grant reviewer American University of Beirut
- 2012 Student poster judge for 2012 Environmental Mutagen conference held in Doha, March 2012
- 2012 Abstract reviewer for 2012 Environmental Mutagen conference held in Doha, March 2012
- 2012 Organizing committee for 2012 Environmental Mutagen conference held in Doha, 2012
- 2011 Organizing committee for 2012 Environmental Mutagen conference to be held in Doha
- 2011 Unpaid contributor for a Bloomsbury book on the plants of Qatar
- 2011 Unpaid consultant for a documentary film on sustainable architecture in Qatar
- 2011 American School of Doha, guest speaker on the plants of Qatar, January 27, 2011

- 2010 Contributor photo exhibition at Carnegie Mellon “Treasures of the Desert of Qatar” in honor of the International Year of Biodiversity, November 25, 2010
- 2010 Faculty Advisor of the student organization “Green Team” sustainability student club
- 2010 Lab host for Carnegie Mellon University Conservation course students October 11, 2010
- 2010 Guest writer, B’Green Annual Review Qatar: Investing in a Cleaner Tomorrow
- 2010 ASTER lab host feeding behavior and food preferences in the local dhub (*Uromastix aegyptia microlepis*) using field samples October 6, 2010
- 2010 Journal Reviewer, African Journal of Ecology, Journal of Ethnobiology and Ethnomedicine
- 2010 Qatar National Day Committee advisor for film on the plants of Qatar
- 2010 Qatar Natural History Group, “Desert Deviants: Qatars most unusual plants”
- 2010 Journal discussion group leader for ASTER on Cyanobacteria and BMAA Exposure from Desert Dust—a Possible Link to Sporadic ALS among Gulf War Veterans
- 2010 Article submissions on the plants of Qatar for the Qatar Natural History Group newsletter and the WCMCQ “Campus Buzz”
- 2010 Leader for field trips for the Qatar Natural History Group, advising on plants of the Umm Tays area, Al Khor and Al Kharrara
- 2009 Journal reviewer, African Journal of Ecology, International Journal of Plant sciences
- 2009 Focus group member. CNAQ Research Assistant Program development
- 2009 “Finding your Research Niche” Higher Education Institute lecture
- 2009 American School of Doha, Guest lecture, “Plant adaptations in Qatar”
- 2009 Discussion leader, Faculty Learning Circle “Developing Problem Solving Skills
- 2009 Panel member, Qatar Science and Technology Park inauguration media roundtable session, “Environment”
- 2009 Guest Lecturer, American School of Doha “Flowers and Fun in Qatar”
- 2009 Field trip leader and lecturer, designed urban field guide
- 2009 Doha English Speaking School, “Flora and Fauna of Qatar” designed visual resource guide for local teachers
- 2009 Guest lecturer, Complementary and Alternative medicine course “*Anastatica hierochuntica*”
- 2009 Leader for 3 field trips for the Qatar Natural History Group, advising on plants of the Umm Tays area, Al Khor and Al Kharrara
- 2009 Guest lecturer “Gastronomic Botany” for the Doha Garden Club
- 2009 Panel member, “Achieving the Environmental Development Outcomes of the Qatar National Vision 2030” National Seminar for the Second Human Development Report
- 2008 Journal reviewer, African Journal of Ecology
- 2008 Discussion leader, “Cradle to Cradle: Rethinking the Way We Make Things” Carnegie Mellon University
- 2008 Student supervisor, “Vegetation Mapping and Anthropogenic Effects in Al-Reem Biosphere Reserve” Sara Abdul-Majid MSC student in Conservation, University College London

- 2008 Scientific Participant, Qatar Aluminum Limited, seminar on determining Fluoride Air Emission Standards for Qatar
- 2008 Guest Lecturer, "Teaching Applied Thinking: From Cells to Ecosystems" Third Qatar Symposium on Science Teaching and Learning, Qatar University
- 2008 Guest Lecturer, in the course Environmental Systems and Current Challenges, Carnegie Mellon University, "Environmental Challenges, Environmental Opportunities: Qatar in the Crosshairs"
- 2008 Guest Lecturer, "Biology and You! Teaching and Research in Qatar" Professional Development Skills for the 21st century, Al Bayan conference
- 2008 Guest Lecturer, Al Bayan Girls School, Conducting Research for High School Teachers
- 2008 Leader, Training Field Trip for Teachers: Ecology for High School Students Al Bayan Girls School
- 2008 Leader, Al Khattab Boys School field research project, Ras Laffan
- 2008 Leader, Al Khattab Boys School field research project, data analysis session
- 2008 Guest lecturer, Al Khattab Boys School "Biology and you! Questions that make a difference"
- 2008 Guest lecturer, "Common in Qatar: A New Perspective on Plants" Qatar Natural History Group
- 2008 Leader, Field trip for the Qatar Natural History Group, advising on plants of the Umm Tays area
- 2007 Guest Lecturer, Academic Bridge Program, "Tribal Knowledge Meets High Technology: Harnessing the Power of Biological Processes"
- 2007 Guest lecturer "Gastronomic Botany" for the Doha Garden Club
- 2007 Organizing Committee OSI Regional Seminar Environment and Development: Policies for our Sustainable Future. August 1-14, 2007 Sevastopol, Ukraine 2007
- 2007 Country Representative (Armenia) and member of the International Advisory Board for "The Environment: Survival and Sustainability" NEU International Conference, Cyprus 2007
- 2006/7 Editorial board member, OSI Regional Seminar. Environment and Development: Policies for our Sustainable Future. 2006-2007
- 2006 Advisory board member, Forest Monitoring Center, Gov. of Armenia

H. RESEARCH SUPPORT:

GRANTS AND FINANCIAL AWARDS

2011	Qatar Foundation Annual Research Forum Best Environment Research Program (lead PI)	\$100,000
2011	Qatar National Research Fund NPRP Award (lead PI)	\$988,886
2010	Qatar National Research Fund NPRP Award (co-PI)	\$1,027,729
2010	Qatar National Research Fund UREP Award	\$30,000
2008	Qatar National Research Fund UREP Award	\$40,000
2007	Qatar National Research Fund UREP Award	\$60,000
2007	Whitley Award	\$60,000
2006	Darwin Initiative Award	\$3,000
2004	Clark-Cooke Award	\$6,000
2000	National Science Foundation International Grant	\$20,000
1998	National Geographic Society Grant	\$12,000
1998	OEB Departmental Grant	\$6,000
1998	Duracell USA Equipment award	
1998	Magellan USA Equipment award	
1995	Duracell USA Equipment award	
1994	Chicago Zoological Society grant in aid of research	\$2300
1993	Sigma XI grant in aid of research	\$1200
1993	Richter grant in aid of research	\$2000
1992	Richter grant in support of internships	\$1500

FELLOWSHIPS

2006	Kenan Fellow, National Tropical Botanical Garden	
2001	EPA STAR Fellowship/3 years	~\$130,000
1998	Sinclair-Kennedy Fellowship/ 1 year	\$12,000
1998	NSF Pre-doctoral Fellowship/3 years	~\$100,000
1996	An Wang Fellowship/ 1 year	\$12,000

DEVELOPMENT AWARDS

2007	Millennium Challenge Award Environmental Impact Assessment “Agricultural Development in the Ararat Valley Wetlands” Environmental Conservation and Research Center American University of Armenia	\$70,000
2005	Acopian Endowment / 2 years for capital investment and research Environmental Conservation and Research Center American University of Armenia	\$1,000,000

I. PROFESSIONAL DEVELOPMENT

2013	Society for Ecological Restoration World Conference on Ecological Restoration
2012	American Society for Cell Biology Annual Meeting San Francisco, CA
2012	International Environmental Science and Technology conference Houston, Texas
2011	Biomathematics and Ecology Meeting Portland, Oregon
2011	LiCOR gas exchange equipment training Lincoln, Nebraska
2011	International Society for Industrial Ecology meeting Berkeley, California
2010	English Teaching Excellence for Qatar: Learning through English Doha, Qatar
2010	Urban Environmental Pollution annual meeting: Overcoming Obstacles to Sustainability and Quality of Life
2009	American Geophysical Union annual meeting
2009	Ecologist certification, Ecological Society of America
2009	Smithsonian Institute GIS beginner/advanced course
2008	Society for Economic Botany Annual Meeting
2008	Effective Basic Science Teaching course
2008	International Association of Medical Science Educators Webcast Seminar Series
2008	Advanced Placement Biology Summer Institute

J. PROFESSIONAL MEMBERSHIPS:

American Geophysical Union	3/06 -	present
American Assoc. for the Adv. of Science	3/06 -	present
Ecological Society of America	1998 -	present
International Society for Industrial Ecology	4/06-	present
Society for Economic Botany	10/05 -	present
National Science Teachers Association	10/07 -	present

Date: April 1, 2015

Signature: 