

ROYAL C. GARDNER
Stetson University College of Law
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EMPLOYMENT

1994 to
present **STETSON UNIVERSITY COLLEGE OF LAW, TAMPA BAY, FL**

Director of Institute for Biodiversity Law and Policy (since 2005). Responsible for coordinating education, research, and service activities related to biodiversity issues (see www.law.stetson.edu/international/biodiversity). Institute received the 2016 American Bar Association's Distinguished Achievement in Environmental Law and Policy Award.

Interim Dean (2011-2012). Chief academic, administrative, and operations officer of the Gulfport and Tampa campuses. Responsible for strategic leadership for College of Law academic programs, budget and personnel management, student and faculty recruitment, alumni and community outreach, and fundraising and institutional advancement.

Vice Dean (2004-05). Oversaw offices of Financial Aid, Career Services, and Public Safety. Liaison to accrediting bodies for purposes of reporting obligations.

Associate Dean (2002-04). Oversaw all academic programs at the College of Law.

Director of Graduate and International Programs (1999-2003). Administered LL.M. program in International Law and Business. Served as director of summer programs in Estonia and Spain.

Professor of Law (since 2000); *Associate Professor* (1997-2000); *Assistant Professor* (1994-97). Teach Torts and various environmental law courses, including Wetland Seminar, Environmental Law, International Environmental Law, Research and Writing II (Environmental Law), Administrative Law, and Topics in Biodiversity Law. Co-founder and co-director of International Environmental Moot Court Competition. Recipient of the 1997 and 2011 Hand Award for Excellence in Faculty Research, the 1997-98 Students' Choice Award for Academic Excellence, the 2005 Dean's Award for Extraordinary Service to the College of Law, the 2006 National Wetlands Award for Education and Outreach, the 2018 Society of Wetland Scientists President's Service Award, and the 2019 Dickerson-Brown Award for Excellence in Faculty Scholarship.

2019 to
present **CHARLES STURT UNIVERSITY, GULBALI INSTITUTE FOR AGRICULTURE, WATER & ENVIRONMENT, ALBURY, AUSTRALIA**

Adjunct Professor. Collaborate with Gulbali Institute researchers on wetland law and policy projects.

Spring
2008 **UNIVERSIDAD DE GRANADA, FACULTAD DE DERECHO, GRANADA, SPAIN**

Visiting Researcher. Organized International Wildlife Law Conference, made presentations to the faculty, and conducted research.

- Spring 2002 **UNIVERSIDAD DE MÁLAGA, FACULTAD DE DERECHO, MÁLAGA, SPAIN**
Visiting Professor of Law. Taught International Environmental Law and Introduction to the U.S. Legal System.
- Summer 1999 **CONCORDIA INTERNATIONAL UNIVERSITY – ESTONIA, TALLINN, ESTONIA**
Visiting Associate Professor of Law. Taught International Environmental Law. Recipient of the Summer 1999 Outstanding Instructor Award.
- 1993-94 **OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE (NUCLEAR SECURITY AND COUNTERPROLIFERATION), WASHINGTON, DC**
Assistant for Safety, Security and Dismantlement Activities. Participated in drafting and negotiating international agreements with Russia, Ukraine, Kazakhstan, and Belarus regarding the provision of assistance for the dismantlement of the former Soviet Union's nuclear weapons and other defense conversion activities. Agreements included a \$135 million agreement with the Ministry of Defense of Ukraine concerning assistance to eliminate strategic nuclear arms.
- 1989-93 **OFFICE OF THE GENERAL COUNSEL, DEPARTMENT OF THE ARMY, WASHINGTON, DC**
Assistant to the General Counsel. Served as the Department of the Army's principal wetland attorney. Advised the Assistant Secretary of the Army (Civil Works) on legal and policy issues relating to the Clean Water Act section 404 program and water resources development projects. Served as the Secretary of the Army's advisor for Endangered Species Committee matters.
- 1988-89 **UNITED STATES DISTRICT COURT, DISTRICT OF RHODE ISLAND, PROVIDENCE, RI**
Judicial Clerk to Chief Judge Francis J. Boyle.

PROFESSIONAL APPOINTMENTS

Chair, Ramsar Scientific and Technical Review Panel (2013-18)

Board of Managing Editors, *Journal of International Wildlife Law & Policy* (since 2006)

Editorial Board, *Wetlands Ecology and Management* (since 2006-22)

Invited Expert, Ramsar Scientific and Technical Review Panel (2009-12)

Regional Network Member for North America, Ramsar Scientific and Technical Review Panel (2006-08)

Chair, United States National Ramsar Committee (2005-08; Vice Chair 2002-05)

Co-Chair, American Bar Association, Section of International Law and Practice, International Environmental Law Committee (2009-11; Vice Chair 2005-09)

Vice Chair, American Bar Association, Section of Environment, Energy, and Resources, Water Quality and Wetlands Committee (2002-09)

United States Delegate, Ninth Conference of the Contracting Parties to the Ramsar Convention (Kampala, Uganda, Nov. 2005)

United States Delegate, Eighth Conference of the Contracting Parties to the Ramsar Convention
(Valencia, Spain, Nov. 2002)

Member, National Research Council, Committee on Mitigating Wetland Losses (1999-2001)

EDUCATION

BOSTON COLLEGE LAW SCHOOL, NEWTON CENTRE, MA

Juris Doctor, magna cum laude, May 1988

Boston College Law Review

Executive Editor 1987-88, Staff Member 1986-87

Order of the Coif

Academic Support Program Constitutional Law Tutor

GEORGETOWN UNIVERSITY, WASHINGTON, DC

Bachelor of Arts, magna cum laude, May 1985

Four-year Army ROTC Scholarship Recipient

Distinguished Military Graduate

American Legion Award for Academic Excellence

PUBLICATIONS

BOOKS AND BOOK CHAPTERS:

WATERS OF THE UNITED STATES: POTUS, SCOTUS, WOTUS, AND THE POLITICS OF A NATIONAL RESOURCE (Island Press forthcoming 2024)

LAWYERS, SWAMPS, AND MONEY: U.S. WETLAND LAW, POLICY, AND POLITICS (Island Press 2011).

WETLANDS IN THE AMERICAS: THE ROLE OF THE RAMSAR CONVENTION AND THE BENEFITS OF RAMSAR SITE DESIGNATION (Ramsar Secretariat 2011) (general editor with Maria Rivera; contributed two chapters and collaborated on six case studies) (also available in Spanish).

Ramsar Convention governance and processes at the international level, in RAMSAR WETLANDS: VALUES, ASSESSMENT, MANAGEMENT (Peter Gell, Nick Davidson & Max Finlayson eds., Elsevier 2023) (co-authored with Erin Okuno and Dave Pritchard).

Ramsar at the national level: Application and incorporation into domestic law, in RAMSAR WETLANDS: VALUES, ASSESSMENT, MANAGEMENT (Peter Gell, Nick Davidson & Max Finlayson eds., Elsevier 2023) (multiple co-authors).

Opportunities and Challenges for Synergies Across Biodiversity-Related Conventions in the Context of Human Health and Zoonotic Diseases: The Role of Scientific Advisory Bodies, in BIOLOGICAL DIVERSITY AND INTERNATIONAL LAW: CHALLENGES FOR THE POST 2020 SCENARIO (Mar Campins & Teresa Fajardo eds., Springer Nature 2022).

The Ramsar Convention, in WETLANDS – INTEGRATING MULTIDISCIPLINARY CONCEPTS (Ben A. LePage ed., Springer 2011) (co-authored with Nick Davidson) (also available in Mandarin).

Official Development Assistance: Toward Funding for Sustainability, in AGENDA FOR A SUSTAINABLE AMERICA (John C. Dernbach ed., Env'tl. L. Inst. 2009) (co-authored with Ezequiel Lugo).

Legal Considerations, in CONSERVATION AND BIODIVERSITY BANKING – A GUIDE TO SETTING UP AND RUNNING BIODIVERSITY CREDIT TRADING SYSTEMS (Ricardo Bayon, Jessica Fox & Nathaniel Carroll eds., Earthscan, London 2008).

Rapanos and Wetland Mitigation Banking, in THE SUPREME COURT AND THE CLEAN WATER ACT: FIVE ESSAYS 56 (Vt. J. Env'tl. L. 2007).

Mitigation, in WETLANDS LAW AND POLICY: UNDERSTANDING SECTION 404 (Kim Diana Connolly, Stephen M. Johnson & Douglas R. Williams eds., ABA 2005).

Regulación de la contaminación acústica en los Estados Unidos, in RÉGIMEN JURÍDICO DEL RUIDO: UNA PERSPECTIVA INTEGRAL Y COMPARADA (Estanislao Arana García and María Asunción Torres López eds. Comares 2004) (University of Granada, Spain).

Official Development Assistance, in STUMBLING TOWARD SUSTAINABILITY 149 (John Dernbach ed., Env'tl. L. Inst. 2002).

National Research Council, COMPENSATING FOR WETLAND LOSSES UNDER THE CLEAN WATER ACT (National Academy Press 2001) (contributed to report as member of NRC Committee on Mitigating Wetland Losses).

PAPERS IN PEER-REVIEWED JOURNALS

Waters of the United States: An Urgent Call for Action by Fisheries and Aquatic Science Professionals, 48 Fisheries 465 (2023) (doi.org/10.1002/fsh.11001).

Development of the text of the Ramsar Convention: 1965-1971, 72 Marine & Freshwater Research 1 (2022) (multiple co-authors) (doi.org/10.1071/MF21312).

Ramsar Wetlands of International Importance—Improving Conservation Outcomes, Frontiers Env'tl. Sci. 9:643367 (2021) (multiple co-authors) ([doi: 10.3389/fenvs.2021.643367](https://doi.org/10.3389/fenvs.2021.643367)).

Towards a Universal Declaration of the Rights of Wetlands, 72 Marine & Freshwater Research 593-600 (2020) (multiple co-authors) (see <https://www.rightsofwetlands.org/> for endorsements) (doi.org/10.1071/MF20219).

Ten key issues from the Global Wetland Outlook for decision makers, 72 Marine & Freshwater Research 301 (2020) (with Max Finlayson) (<https://doi.org/10.1071/MF20079>).

Advocating for Science: Amici Curiae Brief of Wetland and Water Scientists in Support of the Clean Water Rule, 39 Wetlands 403 (2019) (multiple co-authors) (accessed more than 2,000 times; ranked first in tracked articles of a similar age in Wetlands).

Improvements to the Wetland Extent Trends (WET) index as a tool for monitoring natural and human-made wetlands, 99 Ecological Indicators 294 (2019) (multiple co-authors).

Satellite sensor requirements for monitoring essential biodiversity variables of coastal ecosystems, 28 Ecological Applications 749 (2018) (multiple co-authors).

International Wildlife Law: Understanding and Enhancing Its Role in Conservation, 67 BioScience 784 (2017) (multiple co-authors).

Achieving Aichi Biodiversity Target 11 to improve the performance of protected areas and conserve freshwater biodiversity, 26 Aquatic Conservation: Marine Freshwater Ecosystems 133 (2016) (multiple co-authors).

North American wetland mitigation and restoration policies, 17 Wetlands Ecol. & Mgt. 1 (2009) (introduction to special issue).

SELECT OTHER PUBLICATIONS:

The Initial Response of Biodiversity Conventions to the COVID-19 Pandemic, 48 William & Mary Environmental Law and Policy Review 1 (2023) (co-authored with Katherine Pratt and Lauren Beames).

US Supreme Court opinion harms watersheds, 381 Science 385 (July 27, 2023) (letter with SMP Sullivan).

What the US Supreme Court decision means for wetlands, 618 Nature 215 (June 8, 2023).

Improving In-Lieu Fee Program Implementation: Long-Term Management of Mitigation Sites (Environmental Law Institute 2021) (co-authored with Erin Okuno and Rebecca Kihlslinger).

Global Wetland Outlook: State of the World's Wetlands and their Services to People (Ramsar Convention Secretariat 2018) (lead coordinating author with C. Max Finlayson) (translated into Spanish and French).

Global Wetland Outlook: Technical Note to Introduction (Ramsar Convention Secretariat 2018) (multiple co-authors).

Global Wetland Outlook: Technical Note on Status and Trends (Ramsar Convention Secretariat 2018) (multiple co-authors).

Global Wetland Outlook: Technical Note on Responses (Ramsar Convention Secretariat 2018) (multiple co-authors).

The Shifting Boundaries of Clean Water Act Jurisdiction, 35(4) Wetland Science & Practice 317 (2018) (with Erin Okuno).

Ramsar Scientific and Technical Review Panel Briefing Note Number 8: Ramsar Advisory Missions: Technical Advice on Ramsar Sites (Ramsar Convention Secretariat 2018) (multiple co-authors).

Integrating multiple wetland values into decision-making, Ramsar Policy Brief no. 2 (Ramsar Convention Secretariat 2017) (multiple co-authors) (translated into Spanish and French).

State of the World's Wetlands and their Services to People: A compilation of recent analyses, Ramsar Scientific and Technical Briefing Note no. 7 (Ramsar Convention Secretariat 2015) (co-authored with ten STRP members) (translated into Spanish and French).

The Legal Status of Environmental Credit Stacking, 40 Ecology L. Q. 713 (2013) (co-authored with Jessica Fox).

Mitigation Banking and Reputational Risk, 34 Nat'l Wetlands Newsletter 10 (Nov./Dec. 2012).

Mitigation Banking and Takings, 34 Nat'l Wetlands Newsletter 7 (May-June 2012) (selected as the publication's best work of the year and reprinted in 30 Env'tl. Forum 30 (July/Aug. 2013)).

Avoiding, mitigating, and compensating for loss and degradation of wetlands in national laws and policies, Ramsar Scientific and Technical Briefing Note no. 3 (Ramsar Convention Secretariat 2012) (co-authored with Marcela Bonells, Erin Okuno, and Juan Zarama) (translated into Spanish and French).

Incorporating Environmental Law Into First-Year Research and Writing, 20 Perspectives: Teaching Legal Research and Writing 144 (2012) (also published in 42 Env'tl. L. Rep. 10941 (2012)).

Stacking Opportunities and Risks in Environmental Credit Markets, 41 Env'tl. L. Rep. 10,121 (2011) (co-authored with Jessica Fox and Todd Maki of the Electric Power Research Institute) (selected as the publication's best work of the year and reprinted in 29 Env'tl. Forum 42 (July/Aug. 2012)).

Corporate Shell Games: LLPs, LLCs, and Responsibility for Mitigation Sites, 31 Nat'l Wetlands Newsletter 6 (Nov.-Dec. 2009) (co-authored with Theresa Pulley Radwan) (selected as the publication's best work of the year and reprinted in 27 Env'tl. Forum 48 (July/Aug. 2010)).

Compensating for Wetland Losses under the Clean Water Act (Redux): Evaluating the Federal Compensatory Mitigation Regulation, 38 Stetson L. Rev. 213 (2009) (co-authored with eight former members of the NRC Committee on Mitigating Wetland Losses) (abridged version published in 31 Nat'l Wetlands Newsletter 1 (Mar.-Apr. 2009)).

African Wetlands of International Importance: Assessment of Benefits Associated with Designations Under the Ramsar Convention, 21 Georgetown Intl. Env'tl. L. Rev. 257 (2009) (co-authors Kim Diana Connolly and Abou Bamba).

The Ramsar Convention on Wetlands: Assessment of International Designations Within the United States, 37 Env'tl. L. Rep. 10,089 (Env'tl. L. Inst.) (2007) (co-authored with Kim Diana Connolly) (condensed version published in 29 National Wetlands Newsl. 6 (Mar.-Apr. 2007)).

What Happens When a Wetland Mitigation Bank Goes Bankrupt?, 35 Env'tl. L. Rep. (Env'tl. L. Instit.) 10,590 (2005) (co-authored with Theresa J. Pulley Radwan) (abridged and updated version published in 28 Nat'l Wetlands Newsl. 1 (July-Aug. 2006)).

Rehabilitating Nature: A Comparative Review of Legal Mechanisms That Encourage Wetland Restoration Efforts, 52 Cath. U. L. Rev. 527 (2003).

Exporting American Values: Tenth Amendment Principles and International Environmental Assistance, 22 Harv. Env'tl. L. Rev. 1 (1998).

PRESENTATIONS

SELECT INTERNATIONAL PRESENTATIONS:

Wetland Laws and Regulations, Ramsar Regional Workshop on Wise Use of Caribbean Wetlands for Climate Change Mitigation and Conservation of their Ecosystem Services, San Pedro, Belize (Feb. 18, 2023).

The Ramsar Convention as a Protected Area Network, Javeriana University, Bogota, Colombia (Feb. 8, 2023) (keynote speech).

Rights of Wetlands—Legal Opportunities and Challenges, Fourteenth Conference of the Contracting Parties to the Ramsar Convention, Geneva, Switzerland (Nov. 7, 2022) (side event).

Key Takeaways for Decision Makers from the Last Global Wetland Outlook, Greens/EFA in the European Parliament International Online Conference (Oct. 27, 2021) (webcast).

Ramsar Convention: Obligations and Opportunities, Institute for Wetland Research, Chinese Academy of Forestry, Beijing, China (July 7, 2021) (webcast).

Aligning Carbon and Biodiversity Offsets: A Perspective from the United States, Land Use 2021: A Place for Biodiversity Offsets, University of Alberta, Alberta Land Institute (May 10, 2021) (webcast).

Ramsar at 50: How a Migratory Waterfowl Convention Evolved to Encompass Climate Change and Disaster Risk Reduction, 2nd Southeast Asian Biodiversity and Climate Change Policy Forum, University of the Philippines College of Law, Manila (Jan. 11, 2021) (webcast).

The Role of Scientific Advisory Bodies: Opportunities and Challenges for Synergies Across Biodiversity-related Conventions, Seminar on Biodiversity and International Law, University of Barcelona, Spain (Dec. 17, 2020) (webcast).

Opportunities and Challenges for Synergies Across Biodiversity-related Conventions in the Context of Human Health and Zoonotic Diseases: The Role of Scientific Advisory Bodies, 10th Godang International Conference on Law: Law and Environment in the Post-Pandemic Era, Soongsil University, Seoul, Republic of Korea (Nov. 18, 2020) (webcast).

Wetland Ecosystems in Southeast Asia: The Climate Change and Biodiversity Nexus, 1st Southeast Asian Biodiversity and Climate Change Policy Forum, University of the Philippines College of Law, Manila (Jan. 7, 2020).

Global Wetland Outlook: State of the World's Wetlands and their Services to People, 19th International Wildlife Law Conference, University of Barcelona, Spain (June 3, 2019).

Global Wetland Outlook: State of the World's Wetlands and their Services to People, Ashok Kumar Memorial Wildlife Law and Enforcement Conference, Pune, India (Mar. 12, 2019).

Key legal/policy issues in COP13 draft Resolutions on climate change, Thirteenth Conference of the Contracting Parties to the Ramsar Convention, Dubai, United Arab Emirates (Oct. 26, 2018).

Global Wetland Outlook: State of the World's Wetlands and their Services to People, Thirteenth Conference of the Contracting Parties to the Ramsar Convention, Dubai, United Arab Emirates (Oct. 23, 2018).

Report of the STRP Chair, Thirteenth Conference of the Contracting Parties to the Ramsar Convention, Dubai, United Arab Emirates (Oct. 23, 2018).

Challenges (and opportunities) for scientific advisory bodies in international wildlife regimes, 18th International Wildlife Law Conference, University of Tilburg, The Netherlands (Apr. 19, 2018).

The Ramsar Convention and the role of its Scientific and Technical Review Panel, 17th International Wildlife Law Conference, Bharati Vidyapeeth University, Pune, India (Jan. 6, 2017).

Wetlands: The Intersection of Science and Law (and Politics), Symbiosis Law School, Pune, India (Jan. 4, 2017).

Forests and Wetlands, Celebrating the International Day of Forests and World Water Day, ECOSOC Chamber, United Nations Headquarters, NY (Mar. 21, 2016).

Implementing the Water and Sanitation Goal, UN Secretary General's Advisory Board on Water and Sanitation Closing Ceremony, ECOSOC Chamber, United Nations Headquarters, NY (Nov. 20, 2016).

Wetlands and their Benefits, Wetlands, Biodiversity and the Role of Earth Observations Webinar, Group on Earth Observations and the Ramsar Convention on Wetlands (June 18, 2015).

Report of the STRP Chair, Twelfth Conference of the Contracting Parties to the Ramsar Convention, Punta del Este, Uruguay (June 3, 2015).

Riesgos naturales y derecho: la legislación ambiental de Estados Unidos ante el riesgo de inundaciones, Jornadas de derecho y riesgos naturales (Conference on Law and Natural Risks), University of Granada, Granada, Spain (Apr. 9, 2015).

The Role of the Ramsar Convention in Ensuring the Conservation and Wise Use of Wetlands, 15th International Wildlife Law Conference, University of Granada, Granada, Spain (Mar. 27, 2015).

Habitat Banking in Law, Policy, and Practice, International Symposium on Biodiversity, Sustainable Development & the Law, Cambridge University, Cambridge, UK (Feb. 21, 2015).

Lessons learned from wetland policy and regulatory frameworks, Learning from Wetlands – The case for dry soils, UN Convention on Biological Diversity Webcast (Feb. 12, 2015).

U.S. Wetland Mitigation, Biodiversity Offsets in Canada: Getting it Right, Making a Difference, University of Ottawa, Ottawa, Canada (Feb. 13, 2014).

Biodiversity Offsets: United States experience and international perspectives, Soongsil University, Seoul, Korea (Oct. 12, 2013).

U.S. Wetland Mitigation (Offset) Policies and Case Studies, 2013 International Workshops for

Wetland Conservation, Taipei, Tainan, and Taoyuan, Taiwan (Aug. 12, 15 & 16, 2013).

Biodiversity Offsets: An International Perspective, 14th International Wildlife Law Conference, Buea, Cameroon (Dec. 7, 2012).

Legal Aspects of the Ramsar Convention, Celebration of the 40th Anniversary of the Ramsar Convention on Wetlands, Huatulco, Mexico (Jan. 31, 2011).

Biodiversity Banking: Legal Considerations, Fórum Biodiversidade, Cascais Natura, Estoril, Portugal (Sept. 13, 2010).

National Training Course for Canadian Ramsar Site Managers, Creston Valley Wildlife Management Area, Creston, British Columbia (Oct. 5-8, 2009) (course instructor).

Beijing Wetland Legislation International Workshop, Beijing Forestry and Parks Bureau, Department of International Cooperation, Beijing, China (Sept. 21-22, 2009) (two days of presentations).

Assessing the Value of Ramsar Designation: Survey Results from North America, 10th Meeting of the Conference of the Contracting Parties to the Convention on Wetlands, Changwon, Republic of Korea (Nov. 1, 2008) (organizer and moderator of side event).

A Global Approach to Avoiding, Minimizing and Offsetting Wetland Loss, IUCN World Conservation Congress, Barcelona, Spain (Oct. 7, 2008).

SELECT DOMESTIC PRESENTATIONS:

Sackett v. U.S. Environmental Protection Agency: SCOTUS Scuttles WOTUS, ABA Section of Environment, Energy, and Resources Spring Conference, Chicago, IL (Apr. 5, 2024).

Clean Water Act Update: Sackett v. U.S. Environmental Protection Agency, Tulane Environmental Law and Policy Summit, New Orleans, LA (Feb. 23, 2024).

Protecting Everglades Wetlands Post-Sackett: What's the Game Plan Following the U.S. Supreme Court Ruling?, Everglades Coalition Conference, Bonita Springs, FL (Jan. 27, 2024).

An Introduction to the Ramsar Convention, Wetlands Law: Emerging Trends and Challenges, University of Miami School of Law, Miami, FL (Nov. 3, 2023).

Unpacking the Revised WOTUS Rule, Environmental Law Institute Webinar (Sept. 14, 2023).

Sackett's Impacts on Florida Wetlands, Friends of the Everglades Webinar (Sept. 7, 2023).

Sackett v. U.S. Environmental Protection Agency: Ramifications for Wetland Protection, The Nature Conservancy Webinar (July 25, 2023) (national webinar for TNC staff).

Sackett Reflections, Environmental Restoration Business Association Webinar (June 1, 2023).

Sackett v. U.S. Environmental Protection Agency: Implications for WOTUS and the Clean Water Act, Engineers and Scientists Acting Locally Webinar (May 8, 2023).

Sackett v. U.S. Environmental Protection Agency: Implications for WOTUS and the Clean Water Act, Society of Wetland Scientists Webinar (Apr. 20, 2023).

Sackett v. U.S. Environmental Protection Agency: WOTUS in the SCOTUS, Center for Biological Diversity, Ales and Wild Tales, St. Petersburg, FL (Dec. 14, 2022).

Sackett v. U.S. Environmental Protection Agency and the Future of Clean Water Act Jurisdiction, Case Western University School of Law Webcast (Sept. 21, 2022).

WOTUS: Apocalypse Now?, National Mitigation and Ecosystem Banking Conference, Boise, Idaho (May 5, 2022).

Long-Term Protection of Compensatory Mitigation Sites: Equivalency Across Mitigation Providers?, National Mitigation and Ecosystem Banking Conference, Boise, Idaho (May 4, 2022).

Identifying (Jurisdictional) Wetlands: The Legal Landscape, Electric Power Research Institute World Wetlands Day Panel (Feb. 2, 2022) (via videoconference).

Improving Long-Term Protection of Aquatic Resource Compensatory Mitigation Sites: Permittee-Responsible Mitigation, U.S. Environmental Protection Agency Wetlands Mitigation Workgroup (Jan. 28, 2022) (via videoconference).

Pitfalls of Ping Pong WOTUS Policy, Ecobot Webinar Series (May 19, 2021) (via videoconference).

Looking Back, Looking Forward: A Review of the Trump Administration Rulemakings and Charting a Path Forward, Association of State Wetland Managers Hot Topics Webinar Series (Jan. 12, 2021).

How Scientists Can Contribute to Developing Clean Water Act Policy, River Basin Center 3rd Wednesday Symposium, University of Georgia (Nov. 18, 2020) (via videoconference).

WOTUS and Clean Water Act Update, Georgia Environmental Restoration Association (July 23, 2020) (via videoconference).

POTUS, SCOTUS, and WOTUS: The Clean Water Act in the Era of Trump, Society for Freshwater (July 2, 2020) (plenary speaker for virtual Summer of Science Series).

Maui SCOTUS Decision, Environmental Law Institute Breaking News Webinar (Apr. 30, 2020).

POTUS, SCOTUS, and WOTUS: The Clean Water Act in the Era of Trump, University of Florida Water, Wetlands and Watershed Seminar Series (Apr. 8, 2020) (via videoconference).

The Navigable Waters Protection Rule: Highlights & Initial Take-Aways, Association of State Wetland Managers National Webcast (Mar. 25, 2020).

Reflections on WOTUS: Step Two for the Ecological Restoration Industry, Ecological Restoration Business Association Policy Conference, Washington, DC (Mar. 5, 2020).

Shifting Boundaries: The Intersection of Natural Resources, Science, and the Law, 2019 ASA-CSSA-SSSA International Annual Meeting, San Antonio, TX (Nov. 12, 2019) (William J. Patrick, Jr. Memorial Lectureship).

Global Wetland Outlook: Enhancing the Network of Ramsar Sites, University at Buffalo School of Law (Oct. 2, 2019) (via videoconference).

A Legal Analysis of the Clean Water Act Section 401 Proposed Rule, Association of State Wetland Managers National Webcast (Sept. 20, 2019).

Waters of the United States (WOTUS) Update, Florida Association of Environmental Professionals Annual Conference, Tampa, FL (Sept. 19, 2019).

Waters of the United States (WOTUS) Update, National Mitigation and Ecosystem Banking Conference, Minneapolis, MN (May 9, 2019).

WOTUS Legal Update, Association of State Wetland Managers National Webcast (Feb. 13, 2019).

Global Wetland Outlook, Society of Wetland Scientists Webinar (Feb. 4, 2019).

What's up with WOTUS (a never-ending saga)?, National Mitigation and Ecosystem Banking Conference, Louisville, KY (May 10, 2018).

STRP Update, University of Florida Water Institute (Mar. 2, 2018) (via videoconference).

WOTUS Legal Update, Association of State Wetland Managers National Webcast (Feb. 9, 2018).

Lawyers, Swamps, and Money: U.S. Wetland Law, Policy, and Politics, University of South Florida, St. Petersburg, FL (Nov. 15, 2017).

The Legal Status of WOTUS, 2017 Society of Wetland Scientists Conference, San Juan, Puerto Rico (June 8, 2017).

Is Mitigation Banking Consistent with the Objectives of the Ramsar Convention?, 2017 Society of Wetland Scientists Conference, San Juan, Puerto Rico (June 7, 2017).

What's up with WOTUS?, National Mitigation and Ecosystem Banking Conference, Sacramento, CA (May 11, 2017).

Sea Turtle Law and Policy, 20th Annual Florida Marine Turtle Permit Holder Meeting, Gainesville, FL (Feb. 25, 2017).

Multilateral Environmental Agreements and the Intergovernmental Platform on Biodiversity and Ecosystem Services, 16th International Wildlife Law Conference, Gulfport, FL (Apr. 13, 2016).

Legal Challenges to the Clean Water Rule, Association of State Wetland Managers Webinars (June 17, Aug. 24, and Nov. 19, 2015).

Waters of the United States: Proposed Rule Discussion, Electric Power Research Institute Webcast (Oct. 15, 2014).

The Legal Status of Environmental Credit Stacking, Coalition on Agricultural Greenhouse Gases, Sacramento, CA (Mar. 4, 2014).

The Effects of the Koontz Decision on TNC's Mitigation Engagement, The Nature Conservancy Webinar (July 17, 2013).

Koontz v. St. Johns River Water Management District: What Happened and Where Do We Go From Here?, Association of State Wetland Managers Webcast (July 17, 2013).

The Wetlands Ethicist: What would you do?, 2013 Society of Wetland Scientists Conference, Duluth, MN (June 5, 2013).

Developing a Legal and Policy Framework for Avoiding, Mitigating, and Compensating for Wetland Loss and Degradation, 2013 Society of Wetland Scientists Conference, Duluth, MN (June 4, 2013).

Mitigation Litigation: Challenges to Ecosystem Credit Markets, National Mitigation and Ecosystem Banking Conference, New Orleans, LA (May 9, 2013).

Wetland Mitigation and the US Supreme Court: Koontz v. St. Johns River Water Management District, Association of State Wetland Managers Webcast (Jan. 29, 2013).

Stacking, Unbundling, and Additionality in Environmental Credit Markets, EPRI Greenhouse Gas Emissions Offsets Workshop, Washington, DC (Nov. 9, 2012).

The Intersection of Wetland Law, Policy, and Science Through the Ramsar Convention, INTECOL, International Wetlands Conference, Orlando, FL (June 4, 2012).

Lawyers, Swamps, and Money: U.S. Wetland Law, Policy, and Politics, 21st Annual Southwest Florida Water Resources Conference, Naples, FL (Nov. 18, 2011) (keynote speaker).

The Ramsar Convention: Wetlands in a Global Context, Louisiana State University, School of the Coast and Environment, Baton Rouge, LA (Jan. 29, 2010).

Record Destruction, Point Shaving, and Other Ethical Dilemmas for the Professional Wetland Scientist, 2009 Society of Wetland Scientists Conference, Madison WI (June 25, 2009).

Wetlands in a Global Context: The Millennium Ecosystem Assessment, the Ramsar Convention, and the ORWRP, Moonlight on the Marsh Distinguished Lecture, The Ohio State University, Columbus, OH (Sept. 25, 2008).

Wetlands of International Importance: National Wildlife Refuges and the Ramsar Convention, Briefing for the Congressional Wildlife Refuge Caucus, Washington DC (May 30, 2008).

Financial Assurances: Remedial and Long-Term, Conservation Leadership Network, Training Course for Interagency Review Teams, Shepherdstown, WV (June 19, 2007) (via videoconference).

The Role of Ethics and the Professional Wetlands Scientist: Legal Issues, 2007 Society of Wetland Scientists International Conference, Sacramento, CA (June 15, 2007).

The Ramsar Convention on Wetlands: Assessment of International Designations Within the United States, 2007 Society of Wetland Scientists International Conference, Sacramento, CA (June 14, 2007).

Federal Wetland Law and Policy, Environmental Concern, St. Michael's, MD (May 30-June 1, 2007) (two-day course).

AMICUS/AMICI BRIEFS

U.S. SUPREME COURT:

Brief of Scientific Societies as Amici Curiae in Support of Respondents, Sackett v. U.S. Environmental Protection Agency, no. 21-454 (U.S. June 16, 2022).

Brief for Aquatic Scientists and Scientific Societies as Amici Curiae in Support of Respondents, County of Maui v. Hawai'i Wildlife Fund, No. 18-260 (U.S. July 19, 2019) (cited in majority opinion, 140 S. Ct. 1462, 1470 (2020)).

Brief of Former Members of the National Research Council Committee on Mitigating Wetland Losses as Amici Curiae in Support of Respondent, Koontz v. St. Johns River Water Mgmt. Dist., No. 11-1447 (U.S. Dec. 27, 2012).

Brief Amicus Curiae of the National Mitigation Banking Association in Support of the Respondents, Rapanos v. United States, No. 04-1034 (U.S. Jan. 13, 2006).

U.S. COURT OF APPEALS:

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