C-AGG Meeting
Hyatt Regency Sacramento
1209 L Street, Sacramento, CA

TUESDAY 9 APRIL – WEDNESDAY 10 APRIL 2019
SACRAMENTO, CA

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C-AGG Meeting Agenda

Hyatt Regency Sacramento
TUESDAY 9 APRIL – WEDNESDAY 10 APRIL 2019, SACRAMENTO, CA

C-AGG Meeting, Day One
Tuesday 9 April 2019

8:00 am Breakfast
8:30 am Welcome and Introductions
   - C-AGG Overview and Background
   - Meeting Themes and Objectives
     Debbie Reed, C-AGG Executive Director

9:00 am Ecosystem Service Markets Consortium: Markets for Agriculture
     Bruce Knight, Strategic Conservation Solutions
     Debbie Reed, Ecosystem Services Market Consortium

10:00 am Coffee and Networking Break

10:30 am CDFA Program Updates: Alternative Manure Management Program (AMMP); Dairy Digester Research and Development Program (DDRDP); Healthy Soils Program
     Geetika Joshi, CA Department of Food and Agriculture

11:15 am Sustainable Agricultural Lands Conservation Program Updates
     Virginia Jameson, CA Department of Conservation

12:00 pm Lunch and Networking Break

1:00 pm Carbon: Where Does it Belong?
     George Davis, Porter Creek Vineyard and CA Farmers Union

1:45 pm Using Targeted Efforts to Improve Soil Health
     Shefali Mehta, Soil Health Partnership

2:45 pm How Can Fertilizer Practice Change Work for Farmers & the Environment?
     Sally Flis, The Fertilizer Institute

3:45 pm Coffee and Networking Break

4:15 pm Temporal Changes in SOC, Tillage, and Land Use across the US
     David E Clay, SD State University
     Ron Alverson, SD Corn and Soybean Producer
     Hui Xu, Argonne National Laboratory

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Tuesday 9 April 2019, continued

         Dave Gustafson, Conservation Technology Information Center

5:45 pm  C-AGG Networking Reception

C-AGG Meeting, Day Two

Wednesday 10 April 2019

8:00 am  Breakfast

8:30 am  Recap and Thoughts from Day One
         Debbie Reed, C-AGG Executive Director

8:45 am  US Climate Alliance and Agriculture
         Claire Jahns, US Climate Alliance, Natural and Working Lands Initiative
         Ryan McCarthy, CA Air Resources Board, Short-Lived Climate Pollutants Initiative

10:00 am  Equipping USCA States for Natural and Working Lands Mitigation: Agricultural Support
          Anna Harmon, Candidate, Master of Sustainability Solutions 2019, Arizona State University
          Jennifer Moore-Kucera, American Farmland Trust
          Thayer Tomlinson, C-AGG

11:00 am  Coffee and Networking Break

11:30 am  Illinois State Update
          Travis Deppe, Illinois Corn Growers Association

12:30 pm  Lunch and Networking Break

1:30 pm  Partnerships & Programs to Improve Sustainable Agriculture in SD
          Jim Ristau, SD Corn Growers
          Chad Bloom, SD State Pheasants Forever

2:30 pm  National Climate Change Policy Initiatives and Agricultural Imperatives
          Jerry Hinkle, Citizen’s Climate Lobby
          Giana Amador, Carbon180

3:30 pm  Meeting Concludes

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CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE: OFFICE OF ENVIRONMENTAL FARMING AND INNOVATION

California Department of Food and Agriculture (CDFA), established in 1919, serves the citizens of California by promoting and protecting a safe, healthy food supply, and enhancing local and global agricultural trade, through efficient management, innovation and sound science, with a commitment to environmental stewardship. CDFA’s Office of Environmental Farming and Innovation (OEFI) serves California by supporting agricultural production and incentivizing practices resulting in a net benefit for the environment through innovation, efficient management and science. OEFI is home to CDFA’s climate smart agriculture programs, that support farmers and ranchers in reducing greenhouse gas emissions through a variety of projects, such as efficient irrigation, manure management and soil carbon sequestration. In addition, OEFI also houses the Office of Pesticide Consultation and Analysis (OPCA) that focuses on impacts and mitigation of pesticide regulation on California agriculture. Collectively through its programs, OEFI has funded over 800 projects across California, totaling over $200 million, to achieve greenhouse gas reductions to the tune of 1.5 million metric tons of CO₂e annually. For more information, see www.cdfa.ca.gov/oefi or contact Amrith Gunasekara, amrith.gunasekara@cdfa.ca.gov; 916-654-6719.

SOIL HEALTH PARTNERSHIP

Soil Health Partnership (SHP) is a farmer-led initiative that fosters transformation in agriculture through improved soil health, benefiting both farmer profitability and the environment. With more than 140 working farms enrolled in 14 states, the SHP tests, measures and advances progressive farm management practices that will enhance sustainability and farm economics for generations to come. The SHP is a national leader in the research and communication of the benefits of improved soil health. The program’s goal is to quantify the benefits of practices that support soil health, from an economic as well as environmental standpoint, showing farmers how healthy soil benefits their bottom line. The project focuses on collecting data from farmers who commit to change practices, primarily in the areas of cover crops, nutrient management and conservation tillage. What sets this project apart from other research is that it is conducted on working farms, measuring the long-term changes in soil health and its impact on all aspects of the farm operation. Since it began in 2014, the SHP has established a network of 114 on-farm locations in IA, IL, IN, MN, MO, MI, NE, ND, SD, OH, and WI, as well as satellite locations in MD, KS, and FL. The organization also has about two dozen Associate Sites under a program expansion trial. For more information, visit SoilHealthPartnership.org or contact Shefali Mehta, mehta@ncga.com; 203-241-7433.
THE FERTILIZER INSTITUTE
The Fertilizer Institute (TFI) is the leading voice of the fertilizer industry, acting as an advocate for fair regulation and legislation, a consistent source for trusted information and data, a networking agent, and an outlet to publicize industry initiatives in safety and environmental stewardship. Our mission is to represent, promote, and protect the fertilizer industry by advocating for the industry at the federal, state, and local level, addressing issues impacting TFI members, and sharing knowledge about the role and value of the fertilizer industry.

For more information, visit www.tfi.org or contact Sally Flis, sflis@tfi.org; 202-309-6818.

VIVAYIC
Vivayic is a full-service learning solutions company dedicated to building others’ capacity to do good in the world. Vivayic launched in 2006 to meet the needs of forward-looking organizations who recognize the opportunity to utilize learning as a core business strategy to advance their mission. Since then, we have built long-term relationships with dozens of corporate, non-profit, and public organizations completing hundreds of consulting, strategy, and design projects related to learning, training, and knowledge transfer. We have been named to “Inc. Magazine’s” list of 5000 fastest growing companies in the U.S. two years in a row.

The name, Vivayic, is derived from a Sanskrit term that means wisdom from experience. This speaks to the guiding principles we use when designing effective learning and knowledge transfer experiences. We employ a tested methodology to design solutions that meet business needs in a learner-centric manner. We have deep experience in leveraging available technology for delivery across platform types (mobile, desktop, in-person) and across learning approaches (instructor-led, self-guided, peer-to-peer, informal).

Our greatest strength is our team of learning solution designers. Our team’s roots run deep in learning and development with previous experience in both corporate training and development, educational program administration, and classroom teaching at the secondary and post-secondary levels. Vivayic’s headquarters is in Lincoln, Nebraska; however, our team of 25 full-time learning solution designers work virtually from offices in thirteen states. For more information, see www.vivayic.com or contact Audrey Denney, adenney@vivayic.com; 800-280-7272 x 720.
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ALMOND BOARD OF CALIFORNIA
California Almonds make life better by what we grow and how we grow. The Almond Board of California promotes natural, wholesome and quality almonds through leadership in strategic market development, innovative research, and accelerated adoption of industry best practices on behalf of the more than 6,800 almond farmers and processors in California, most of whom are multi-generational family operations. Established in 1950 and based in Modesto, California, the Almond Board of California is a non-profit organization that administers a grower-enacted Federal Marketing Order under the supervision of the United States Department of Agriculture. For more information on the Almond Board of California or almonds, visit www.Almonds.com or check out California Almonds on Facebook, Twitter, Pinterest, Instagram and the California Almonds blog. You can also contact Gabriele Ludwig, gludwig@almondboard.com or Josette Lewis, jlewis@almondboard.com.

CONSERVATION TECHNOLOGY INFORMATION CENTER (CTIC)
Conservation Technology Information Center (CTIC) is a national public-private partnership that envisions the widespread use of economically and environmentally beneficial agricultural systems. Members of CTIC, a non-profit 501(c)(3) organization, include farmers, policy makers, regulators, academic researchers, agribusiness leaders, conservation group personnel, farm media, and others. The organization is supported by the U.S. Environmental Protection Agency, USDA Natural Resources Conservation Service, and other public entities. CTIC connects, champions and provides information on sustainable agricultural systems and technologies that are productive, profitable and preserve natural resources. For more information, see www.CTIC.org or contact Crystal Hatfield, hatfield@ctic.org; 765-494-9555.

DAGAN, INC.
Dagan is a new soil health and agricultural ecosystem services company, working to be the global leader in providing soil health and sustainable agriculture data insights to organizations who bank on farmers. Our mission is to make resilient agriculture ubiquitous...for soil health outcomes, thriving people, communities, and the environment. Dagan provides science-based solutions including: OpTIS – remote sensing-based maps of conservation ag. practices including tillage practices, cover cropping, and crop rotations, DNDC – a plant- and soil-simulating model that produces subfield-scale estimates of agricultural greenhouse gas emissions, soil carbon accounting, and reactive nitrogen movement based on soil properties, weather, and management. Is your organization looking for science-based tools to track progress toward your resilient agriculture goals? We are looking to build partnerships to harness the combined power of OpTIS/DNDC, delivering data on soil health practices and outcomes at scale, affordably. For more information, see www.daganinc.com or contact William Salas at wsalas@daganinc.com.
NEWTRIENT LLC
Newtrient was formed by Dairy Management Inc., National Milk Producers Association and 12 leading dairy cooperatives. Environmental and economic challenges continue to be defining issues for dairy. Representing nearly all U.S. dairy farmers, Newtrient was created to reduce the environmental footprint of dairy and make it economically viable to do so. To meet this mission, Newtrient is focused on generating economic value from the many environmentally beneficial practices and technologies available to dairies. Newtrient is advancing innovative technologies, manure-based products and market-driven solutions that create added value for farmers, communities and the environment. For more information, see www.newtrient.com or contact Jamie Vander Molen, jamie.vandermolen@newtrient.com; 312-898-8218.

NUTRIEN
Partner With Us to Make Agricultural Sustainability A Reality!
Nutrien Ag Solutions™ is the retail division of Nutrien®, the world’s largest crop inputs company. Providing full-acre solutions through a network of trusted crop consultants at over 1,700 global locations. For more than 150 years, we’ve dedicated ourselves to helping growers achieve the highest yields through the most sustainable solutions possible. To learn more, visit www.NutrienAgSolutions.com; for more information on partnership opportunities with Nutrien Ag Solutions, contact Sarah Fox, Director of Strategic Partnerships, Nutrien Ag Solutions, at sarah.fox@nutrien.com; 970-646-1491 or 970-685-3387.

THE NATURE CONSERVANCY
The Nature Conservancy is striving to create a world where people and nature thrive. For more than 65 years, TNC has protected the world’s greatest places and its precious biodiversity. Now we are learning, through a growing body of scientific evidence, that people and nature share many of the same challenges and that investments in nature are essential for creating economic opportunities and solving human development challenges. The need for increased agriculture production is among the century’s paramount challenges—and one of the greatest conservation opportunities today. To provide the food and water people need without sacrificing the environment, TNC is working with farmers, ranchers, fishers, and water managers to create sustainable food supplies, reduce negative environmental impacts, promote economic growth and green supply chains, and create policies that enable sustainability. By creating a sustainable food and agriculture system, we can improve the lives of millions of people for generations to come. Learn more at www.nature.org, on Twitter @NatureAg, or by contacting Pipa Elias at pipa.elias@tnc.org; 571-354-9654.
Speaker Biographies

RON ALVERSON
RETIRED SOUTH DAKOTA CORN AND SOYBEAN PRODUCER
From 1974 to 2015 Ron owned and operated a grain production enterprise near Chester, South Dakota. Ron graduated from South Dakota State University in 1974 with a BS degree in Agronomy/Soil Science. He was a founder and past president of the South Dakota Corn Growers Association and past Board member of the National Corn Growers Association. Ron was also a founder and is a current Board Member of Lake Area Corn Processors LLC (Dakota Ethanol), a 90 million gallon/year ethanol production plant at Wentworth, SD, where he works on low carbon ethanol fuel pathways. He is past President of the American Coalition for Ethanol. Past honors include the South Dakota “Master Farmer” award, the South Dakota State University “Eminent Farmer” award, the South Dakota Corn Growers Association “Excellence in Agriculture” award, and the 2018 Renewable Fuels Association “Industry” award.

GIANA AMADOR
CO-FOUNDER & MANAGING DIRECTOR, CARBON180
Giana Amador is the Co-founder and Managing Director at Carbon180. Prior to joining Carbon180, Giana focused on state-level renewable energy policy in the United States. She received her B.S. in Environmental Economics & Policy and B.S. in Society & the Environment from UC Berkeley.

CHAD BLOOM
DEVELOPMENT OFFICER, PHEASANTS FOREVER
Pheasants Forever and Quail Forever is dedicated to the conservation of pheasants, quail and other wildlife through habitat improvements, public awareness, education and land management policies and programs. Chad started with Pheasants Forever as a volunteer to pay back the great experiences and enhance the resources people used to teach him about the outdoors. He now works for Pheasants Forever and Quail Forever building partnerships and fundraising for conservation habitat, education and outreach programs, and advocacy. He is passionate about the opportunity sustainability creates to bring a variety of stakeholders together to increase farm profitability, strengthen rural economies, and implement conservation habitat.

DAVID E CLAY
DISTINGUISHED PROFESSOR SOIL SCIENCE, SOUTH DAKOTA STATE UNIVERSITY
Dr. David E. Clay received a B.S degree from the University of Wisconsin (Madison), M.S. Degree from the University of Idaho, and Ph.D. from the University of Minnesota. Currently, he is a Distinguished Professor of Soil Science at South Dakota State University. He has served on the Editorial Board for the Agronomy Journal in a number of roles including Associate Editor, Technical Editor, and Editor. In addition, he is an editor or author of 15 books and has published over 250 papers. Dr. Clay’s research goal is to develop and test sustainable precision agricultural management systems that enhance environmental quality, maintain rural economies, and improve energy and economic self-sufficiency.

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GEORGE DAVIS
FOUNDER/PARTNER PORTER CREEK VINEYARDS/Winery, VICE PRESIDENT CALIFORNIA FARMERS UNION

After a varied career as a newspaper photographer, boatbuilder, banana farmer in Hawaii, and social worker, George Davis began his current operation in 1978 growing winegrapes and making wine in Healdsburg California. Porter Creek Vineyards is certified Organic and Biodynamic. George’s older son Alex is now the winemaker and principal farmer for the operation, while George handles the finances. He was formerly a board member and Vice President of the Community Alliance with Family Farmers CAFF and for the past ten years has served as a board member and Vice President of the California Farmers Union. He is completing his second term as an Agricultural Trade Advisor to USDA.

TRAVIS DEPPE
NUTRIENT LOSS REDUCTION MANAGER, ILLINOIS CORN GROWERS ASSOCIATION

Travis is the Nutrient Loss Reduction Manager for the Illinois Corn Growers Association. He leads Illinois Corn’s water quality and sustainability initiatives focused on implementing the Illinois Nutrient Loss Reduction Strategy and meeting supply chain sustainability demands. By working closely with other agriculture organizations, conservation groups, agency partners and public entities, he develops and implements education, outreach, and research to help Illinois corn farmers reach their nutrient loss goals and engage in the sustainability conversation. He obtained a BS in Agriculture with a minor in Agronomy from Western Illinois University and an MS in Crop and Soil Science from Illinois State University.

SALLY FLIS
DIRECTOR OF AGRONOMY, THE FERTILIZER INSTITUTE (TFI)

Sally Flis is the Director of Agronomy at TFI in Washington D.C. In her role at TFI, Sally works with the 4R Nutrient Stewardship programs to help increase the science base and understanding of on-farm practice implementation. Sally is also involved in providing science support for state and national nutrient policy issues. Before joining TFI, Sally worked with farmers in the northeastern U.S. to implement and develop nutrient management plans. Dr. Flis received her Ph.D. in Plant and Soil Science from the University of Vermont, her M.S. Dairy Science and B.S. in Dairy Science and Agronomy from the University of Wisconsin-Madison.

DAVE GUSTAFSON
INTERIM EXECUTIVE DIRECTOR, CONSERVATION TECHNOLOGY INFORMATION CENTER (CTIC)

Dave Gustafson currently serves as Interim Executive Director for CTIC. His academic training was in chemical engineering (Stanford, B.S., 1980; University of Washington, Ph.D., 1983). He worked 30 years in private industry (Shell, Rhône-Poulenc, Monsanto) and then at the ILSI Research Foundation through 2016. Now an independent scientist, he leads research helping food systems meet nutrition needs in more sustainable ways. Dave’s early career focused on environmental modeling agricultural impacts on water quality, and subsequently on various other sustainability issues. Beginning in 2007, Dave began leading efforts to understand climate adaptation and mitigation imperatives in the global agri-food system.

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ANNA HARMON
CANDIDATE, MASTER OF SUSTAINABILITY SOLUTIONS 2019, ARIZONA STATE UNIVERSITY

Anna Harmon is a master’s student at Arizona State University with a focus on sustainability, policy, and agriculture. She also has nearly 10 years of professional experience as a magazine editor and writer.

JERRY HINKLE
ECONOMIC RESEARCH COORDINATOR, BOARD OF DIRECTORS, CITIZEN’S CLIMATE LOBBY

Jerry has worked as an Economist in Banking for 35 years, has a MA in Climate Policy, and has several publications in finance and in the economics of climate policy. He has given 100+ public presentations on climate change over the last 20 years and lobbied Congress for the last 12 to forward market-based solutions to the climate issue. For CCL, he has served as the Northern California Regional Coordinator for 8 years, founded and co-leads the Presenters Team, and serves on the Board of Directors. He is now on staff as the Economic Research Coordinator.

CLAIRE JAHNS
SENIOR ADVISOR, US CLIMATE ALLIANCE, NATURAL AND WORKING LANDS INITIATIVE

Claire Jahns is a Senior Advisor to the U.S. Climate Alliance, with a focus on advancing the Natural and Working Lands Initiative and supporting states in achieving the goals of the Natural and Working Lands Challenge. Ms. Jahns most recently served as Assistant Secretary for Climate Issues at the California Natural Resources Agency under Governor Jerry Brown. Prior to this, she worked with landowners, public officials, and other partners to develop solutions at the intersection of agriculture and biodiversity conservation in California and the American West at TNC. Ms. Jahns was an economist at the Chicago Climate Exchange.

VIRGINIA JAMESON, CA DEPARTMENT OF CONSERVATION
CLIMATE AND CONSERVATION PROGRAM MANAGER, DEPARTMENT OF CONSERVATION, DIVISION OF LAND RESOURCE PROTECTION

Virginia is a Climate and Conservation Program Manager for DOC’s Division of Land Resource Protection. Virginia came to DOC with experience as a land trust employee and advocate and a degree in international affairs, natural resources, and sustainable development. She now manages teams that provide funding for ag land preservation and programs that make communities more livable with better access to fresh, healthy food. These programs encourage land-use efficiency and make California more resilient to climate change.
GEETIKA JOSHI  
SENIOR ENVIRONMENTAL SCIENTIST SUPERVISOR, CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE

Geetika Joshi received Bachelor's and Master's degrees in Microbiology in New Delhi, India. Subsequently, she received a PhD in Soils and Biogeochemistry from UC Davis. She was then a post-doctoral researcher at the UC Davis Center for Regional Change, where she worked to identify barriers to community engagement for academic researchers and strategies to communicate scientific data to grassroots communities. Ms. Joshi joined CDFA in 2014 and is currently at CDFA’s Office of Environmental Farming and Innovation, working on incentives programs on Climate Smart Agriculture, including the Healthy Soils Program and livestock methane reduction programs.

BRUCE KNIGHT  
PRINCIPAL AND FOUNDER, STRATEGIC CONSERVATION SOLUTIONS

Bruce Knight is a nationally recognized expert on conservation, agriculture and the environment. Knight served as Chief of Natural Resources Conservation Service from 2002-2006 - the lead federal agency for conservation on private working agricultural lands - and USDA Under Secretary for Marketing and Regulatory Programs from 2006-2009. Drawing on his experience as a former association executive, lobbyist, regulator and Capitol Hill staffer, Knight has a broad understanding of how Washington works. A third-generation rancher and farmer and lifelong conservationist, Knight operates a diversified grain and cattle operation in South Dakota using no-till and rest rotation grazing systems.

RYAN MCCARTHY  
SCIENCE AND TECHNOLOGY POLICY ADVISOR, CALIFORNIA AIR RESOURCES BOARD

Ryan is the Science and Technology Policy Advisor to the Chair at the California Air Resources Board (CARB), a position he was appointed to by Governor Jerry Brown in 2011. He is a leader in shaping California’s efforts to achieve carbon neutrality by further reducing greenhouse gas emissions, accelerating transitions to zero emission vehicles, slashing emissions of methane and other short-lived climate pollutants, and demonstrating and scaling carbon dioxide removal strategies. Ryan received his master’s and doctorate degrees in civil and environmental engineering from UC Davis and bachelor’s degree in structural engineering from UC San Diego.

SHEFALI MEHTA  
EXECUTIVE DIRECTOR, THE SOIL HEALTH PARTNERSHIP

Dr. Shefali Mehta is an agricultural and environmental economist who focuses on improving agricultural systems to sustainably feed the world. She is the Executive Director of the Soil Health Partnership, a National Corn Growers Association program. Shefali also founded and runs Open Rivers Consulting Associates where she supports clients in tackling some of their toughest problems by finding economic- and science-based solutions. She is the CEO for Ceres Wave, an agricultural and food technology start up. She has worked in roles across private, public and non-profit sectors and serves actively on various non-profit Boards and Advisory groups. Dr. Mehta received her PhD in Agricultural and Applied Economics and MS in Statistics from the University of Minnesota, MPhil in Economics from Cambridge University and a BA in Economics from New York University.

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DEBBIE REED
EXECUTIVE DIRECTOR, C-AGG

Based in Washington, DC, Debbie manages and provides leadership and development for C-AGG activities and meetings. Her extensive policy expertise in agriculture, climate change and natural resources serve to guide and inform C-AGG’s work in the US and abroad. Debbie’s past positions in the US legislative and administrative branches and work in the UNFCCC continue to support and inform C-AGG’s policy and program development. Debbie was recently appointed as the Executive Director of the Ecosystem Services Market Consortium (ESMC), an effort she has been engaged in and supporting for the past 2 years. The ESMC is developing functioning, viable ecosystem service markets for US agriculture, joined by leading US and international NGO’s, companies, and experts from across the agricultural supply chain and value chain. Debbie currently serves on the Board of Directors of Field to Market: The Alliance for Sustainable Agriculture, and co-chairs their greenhouse gas metric and soil carbon metric sub-committees. She is also an Agriculture Technical Working Group expert for the Climate Bonds Initiative.

JIM RISTAU, SD CORN GROWERS
DIRECTOR OF SUSTAINABILITY, SOUTH DAKOTA CORN GROWERS

Jim Ristau is the Director of Sustainability for SD Corn, the collective voice of NCGA and the SD Corn Utilization Council in South Dakota. His position was created in partnership with NRCS, with the purpose of communicating and improving the adoption of sustainable farming practices in SD. Many of his efforts center around improving soil health, which leads to improved farm resiliency and numerous positive environmental outcomes. He is involved in advancing several new opportunities and partnerships developed to engage SD farmers in these efforts.

THAYER TOMLINSON
PROJECT DIRECTOR, C-AGG

Thayer manages C-AGG’s project work, including communications through the newsletter and website, supports the planning, execution and follow-up associated with C-AGG meetings and workshops, and manages the USCA NWL Agriculture Toolkit project. She serves on the USCA NWL Impact Partners Secretariat as a co-lead to manage overall Impact Partner activities. For ten years, Thayer served as the Communications Director for the International Biochar Initiative. She was a Peace Corps Volunteer in Mongolia. Thayer has an MA in International Environmental Policy from the Middlebury Institute of International Studies at Monterey.

HUI XU, ARGONNE NATIONAL LABORATORY
POSTDOCTORAL RESEARCHER, ARGONNE NATIONAL LABORATORY

Dr. Hui Xu is a researcher in the Energy Systems Division at Argonne National Laboratory, USA. His research interests include modeling environmental sustainability of bioenergy feedstock production, integrated spatial land management, and life-cycle analysis of biofuels. His research integrates environmental modeling with geospatial and economic analysis to identify more efficient and sustainable natural resource management strategies. Currently working on three areas: 1) water stress impact of energy and food production, 2) bioenergy feedstock production and soil organic carbon dynamics, 3) life-cycle analysis of biofuels. He holds a PhD in Natural Resources and Environment from the University of Michigan, Ann Arbor.
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