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<u>Samantha Alger</u> recently finished her PhD in the biology department at the University of Vermont, where she was a National Science Foundation Graduate Research Fellow and a 2017 Switzer Fellow. Her dissertation research focuses on RNA viruses in wild bumble bee species and transmission routes of viruses between managed honey bees and wild bumble bees. She works to improve the health of both managed and wild bees through research, education, and outreach. In 2014, Samantha spearheaded Vermont's involvement with the National Honey Bee Survey, a nationwide effort to gather baseline data on bee disease. She manages the survey for Vermont and works closely with beekeepers each summer to inspect apiaries and collect samples across the state.

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<u>Amber Barnes</u> is a nature enthusiast who holds both a Bachelor and Master of Science in Biology, from the University of Akron. While her undergrad focused on Zoology, she has since broadened her interests through volunteer work and field positions. As a Field Botanist for the Cleveland Metroparks she contributed toward the long-term PCAP (Plant Community Assessment Program), which sparked an interest in vegetative research and the use of native plants in gardening and restoration projects. The following summer she was chosen to participate in the Chicago Botanic Garden's Conservation and Land Management Internship as a Wildlife Technician. While stationed in Cedar City, Utah, she worked with the local Bureau of Land Management field office on several wildlife projects including greater sage-grouse conservation work, raptor nest surveys, Utah prairie dog studies, as well as several rangeland and riparian ecosystem health assessments. She is excited to bring her plant and wildlife experience together for the Pollinator Partnership as she monitors plant-pollinator relationships through the Bee Buffer and Monarch Wings Across Ohio programs. In her spare time she enjoys hiking, photography, and volunteering.

**Brannen Basham** Spriggly's is a husband and wife team, Brannen Basham and Jill Jacobs, who made it their mission to develop an educational business that provides opportunities for individuals to learn more about nature while offering resources on how create environments that support beneficial wildlife. With a special focus on the 4,000+ species of native bees in North America, Spriggly's works with individuals, businesses, museums, municipalities, and more to increase environmental awareness. Spriggly's visits gardening festivals and special events providing educational talks and selling products for pollinators including native bee housing made from reclaimed and recycled wood and native wildflower seed bombs. Most recently, Spriggly's began working with the Asheville Museum of Science in Asheville, NC on developing and installing a seasonal exhibition space. The first installation, set to open in September, features the importance of native bees and late season pollinator plantings.

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<u>Alex Burnham</u> is a 3rd year Ph.D. student and National Science Foundation Research Fellow in the department of biology at the University of Vermont. His interests include disease ecology, epidemiological modeling, statistics and pollinator conservation. He graduated from the University of Vermont with a B.S. in zoology where he began combining his interest in pollinators with a passion for statistics and computer science. Advised by Dr. Nicholas Gotelli and Dr. Allison Brody, his work broadly aims to examine how RNA viruses and the microsporidian parasite (Nosema spp.) spread from one species of bee to another and how these two pathogens interact within the host. Alex's work uses a combination of mathematical modeling and empirical work to better understand how disease spillover and temporal variation in disease load and prevalence influences patterns of co-infection in both native and managed bees. In addition, Alex is a member of the Vermont Complex Systems Center's data science program and spends his summers as the Vermont Assistant Coordinator for the National Honeybee Survey (USDA-APHIS), a national study designed to gather baseline data on honey bee disease in North America.

**William Carromero** is the National Botanist for the USDA Forest Service National Hadquarters. Dr. Carromero started his career with the Forest Service in 2004 as the District Botanist at the Ocala National Forest in Florida. He then became the Forest Ecologist at the Ozark-St. Francis National Forests in Arkansas from 2010 to 2015. During his tenure at the Ozark-St. Francis, he led the Ozark Highlands Ecosystem Collaborative Restoration project as the Collaborative Forest Landscape Restoration (CFLR) Coordinator. He also coordinated the Joint Chief's Initiative for the Western Arkansas Woodland Restoration Project. In 2014, William and his team received a Chief's Honor Award in Sustaining National Forests and Grasslands for their CFLR project accomplishments. Dr. Carromero joined the Rangeland Management and Vegetation Ecology Staff at the Forest Service's National Headquarters in October of 2015 as the Invasive Species Specialist. During his tenure at the Washington Office, William has participated in various projects including the Collaborative Restorative Restoration Concern Issue Team and Strategic Framework Team.

**Diana Cox-Foster** is a Research Leader and Entomologist at the USDA-ARS-PWA Pollinating Insects Research Unit in Logan, Utah. Her research focuses on bees and their interactions with pathogens and stresses (parasites, lack of nutrition, and pesticide exposure). She works on honeybees, alfalfa leaf-cutting bees, bumblebees, blue orchard bees, and other native bee species. Diana helped perform initial studies on Colony Collapse Disorder (CCD). Cox-Foster became fascinated with bees at a young age in Colorado. She continued studies of insects at Colorado State University, receiving a B. S. in Entomology and Zoology, and at University of Illinois at Urbana-Champaign, receiving a M.S. and Ph.D. in Entomology. At U of I, she became interested in insect pathology and insect immunity. Cox-Foster gained skills in molecular biology as a post-doc at Vanderbilt University. In 1987, Cox-Foster joined Penn State University in Entomology; she transitioned to USDA-ARS in October 2015.

**Debbie Dekleva** is a results oriented entrepreneur who has a successful track record of protecting biodiverse monarch habitat while creating value from milkweed raw materials. Ms. Dekleva has worked for Natural Fibers/Monarch Flyway, the largest Native milkweed seed supplier in the world, for over 30 years, she has witnessed the benefits to communities and habitats as she implemented a conservation system that benefits underserved communities. As uses are discovered, and milkweed is more readily accepted as a viable material, Dekleva wants to ensure that milkweed used in commercial products help monarchs and other pollinators, rather than hurt them. She enjoys collaboration with diverse people to benefit multiple stakeholders while protecting and expanding monarch habitat.

Jane DeMarchi joined ASTA from the National Association of Wheat Growers (NAWG), where she was Director of Government Affairs for Research and Technology, and involved with research-related policy issues and industry-wide efforts to bring biotechnology to wheat. She coordinated the Wheat Innovation Alliance and served as secretariat for the National Wheat Improvement Committee. Prior to NAWG, Jane was Director of Government Affairs for the North American Millers' Association (NAMA), responsible for advocating on behalf of the corn, wheat, and oat milling industry. Before NAMA, she worked in economic development and trade promotion for the Ohio Department of Development and the U.S. Department of Commerce in Ohio, Hong Kong and Shanghai. Jane received her Bachelor's degree in Asian studies from Dartmouth College.

<u>Val Dolcini</u>, formerly the Administrator of the USDA Farm Service Agency, is a fifth generation Californian, a passionate supporter of American farmers and ranchers, and a firm believer in the promise of our nation's rural places. He is currently the President & CEO of the Pollinator Partnership, an organization dedicated to the support and protection of pollinators throughout North America. Over the course of his career, he has worked at all levels of government and for Fortune 500 companies to develop successful political and business strategies. Val has served on numerous boards and commissions and is currently a Director of the San Francisco State University Foundation, his alma mater. He lives in Washington, D.C.

John Englert is the National Program Leader for Plant Materials with the USDA's Natural Resources Conservation Service in Washington, DC. He has been with the agency for over 25 years. John provides technical leadership on agency-wide vegetation issues that affect soil stabilization and soil health, water and air quality, wildlife and pollinator habitat, and livestock production. John provides overall guidance and direction for activities at NRCS' 25 Plant Materials Centers. Plant Materials Centers develop plants and plant information on a wide range of topics, including appropriate wildflowers species and methods of establishing and managing plantings to support NRCS pollinator habitat efforts.

**Olivia Eskew** recently transitioned from a role at Cypress Creek Renewables as the Pollinator Project Coordinator to the Sustainability Coordinator. As the Pollinator Project Coordinator, she pioneered a national sustainable best practices guide for the utility-scale solar industry on the co-location of solar and agriculture. Currently, she is incorporating corporate social responsibility initiatives company-wide to facilitate external reporting of the company's triple bottom line. She recently graduated from Duke University's Master of Environmental Management program at the Nicholas School of the Environment. With a focus on corporate social responsibility, her graduate degree serves as a bridge between her natural science background to policy and sustainability initiatives facilitation.

**Elaine Evans** is a University of Minnesota Extension Educator and Bee Researcher working on pollinator education and research relating to bee conservation. She completed her M.S. and Ph.D. in Entomology at the University of Minnesota. She has authored several books: "Befriending Bumble Bees: A Guide to Raising Local Bumble Bees" and "Managing Alternative Pollinators". She works with volunteers to survey bumblebees in MN though the Minnesota Bee Survey and the Minnesota Bee Atlas programs. Her current work focuses on determining the status of bees in MN, monitoring threatened populations of the rusty-patched bumblebee, and enacting pollinator conservation through research, education, outreach, and citizen-science.

**Jay Evans** is Research Leader of the USDA-ARS Bee Research Laboratory in Beltsville, Maryland. The BRL uses laboratory and field approaches to identify and mitigate abiotic and biotic stresses faced by honeybees. Dr. Evans' research is focused on managing disease in honeybees and improving our understanding of bee defenses. Prior to joining the BRL in 1998, he studied social insects while earning A.B and PhD degrees at Princeton University and the University of Utah, respectively.

**Melinda Fegler**, Executive Director: PX3-Pollinators Prospering People. Mel began her journey, after finishing her BS in Marine Biology, working in sea turtle research with the National Marine Fisheries Service before her teaching stent of 7 years at a Galveston, Texas High School. In 2012, Melinda completed her MS in Natural Resource Management from Texas A&M University while working for the university's Ecosystem and Science Management Department in a variety of best management research projects all over the state. Currently Mel is the Volunteer and Stewardship Coordinator for a Chesapeake Bay National Estuary Research Reserve System site component, Jug Bay Wetlands Sanctuary. Mel's passion for pollinator ecology and the valuable services pollinators provide inspired her to round up a phenomenal team that would become PX3-Pollinators Prospering People. PX3 celebrated their official second birthday September 22, 2018 and looks forward to continuing being impactful team members in promoting sustainable pollinator habitat across the country.

**Peyton Ferrier** is an economist in the Markets and Trade Economics Division of the USDA's Economic Research Service. His 2018 USDA report titled "Market Effects and Responses to Changing Honey Bee Health" considers the effects of elevated rates of honey bee loss on pollination and crop markets. His two ongoing projects related to pollinators consider alternatively the relationship between elevated pollinator loss rates and changes in honey yields and the use of pollinator valuation measures in agricultural policy analysis.

**Carrie Foss** manages the WSU Urban IPM and Pesticide Safety Education Program in Western Washington. Landscape maintenance personnel are trained in plant problem diagnosis, integrated pest management, and personal and environmental safety when applying pesticides. Carrie earned a BS degree in Botany from the University of Washington and an MS degree in Plant Pathology from the University of Hawaii. Her background includes plant problem diagnosis, research on beneficial microorganisms and management strategies for turf and ornamental diseases.

**Howard Ginsberg** is a Research Ecologist with the U.S. Geological Survey at Patuxent Wildlife Research Center. He is Unit Leader of Patuxent's Rhode Island Field Station, and Professor in Residence at the University of Rhode Island. He received his Ph.D. in entomology from Cornell University in 1979. Dr. Ginsberg has published widely on the ecology of vector-borne diseases, especially tick-transmitted infections such as Lyme disease, and on mosquito ecology. His emphases are on transmission dynamics and factors that influence human exposure to vector public health while minimizing negative effects on sensitive natural systems. He is also interested in conservation of invertebrates and bee foraging ecology, especially the interactions between native and introduced species. Dr. Ginsberg received the Director's Award for Natural Resource Research, 1999, from the U.S. National Park Service.

**Tugrul Giray** began bee research in 1988 at the Middle East Technical University in Turkey. Dr. Giray obtained his MS and PhD degrees in Entomology for research on bees at the University of Illinois under mentorship of Dr. Gene Robinson. After postdoctoral work at the Smithsonian Institute with Dr. Mary Jane West-Eberhard, and Dr. David Roubik, he studied behavior genetics at the University of Vermont with Dr. Lori Stevens. He is working at the University of Puerto Rico since 2000. He is the director of the Department of Biology in the Natural Sciences College since 2014. Research in Giray lab ranges from molecular physiology, behavior, ecology, evolution, to genomics of honey bees around the world. One interesting discovery of the lab is that in Puerto Rico a gentle Africanized Honey Bee (gAHB) evolved since their introduction to the island in 1994. gAHB are resistant to Varroa mites, and are free of main honey bee viruses. Giray lab is active in extension projects.

**Terry Griswold** is a researcher with the USDA-ARS Pollinating Insects Research Unit, a laboratory dedicated to conservation of our native bee fauna and the use of this wealth in agricultural pollination. The focus of his research is the biodiversity, systematics, and conservation of native bees with emphasis on North America. He is curator of the U.S. National Pollinating Insects Collection, world-class collection with over 1.5 million specimens, now largely digitized for North America. Current research includes revisions of North American bee genera with potential as managed crop pollinators, faunal studies and biodiversity patterns across the Nearctic. The faunal studies provide the opportunity to ask such questions as: How are bees distributed spatially and temporally? What is the nature of plant-bee interactions and how do these relationships vary in time and space? What is the impact of fire on bee populations? What are optimal methods for inventory and monitoring of bees on large landscapes?

**Steven Hendrix's** studies of wild bee communities at tallgrass prairie preserves, small prairie fragments, produce farms and urban sites throughout Iowa, USA indicate that while these types of sites are often similar in diversity, richness, and abundance of bees, the farms often differ in bee community composition. These differences are likely related to failure of farms to provide appropriate floral resources needed by some species or drastically changing soil nesting characteristics than favor others. His analyses of the interactions of wild bees and tallgrass prairie plants have identified eight prairies species that attract more bee species than expected and can increase effectiveness of restorations. Most recently, Steven has been mapping supply and demand of pollinators in an urban setting, Iowa City, Iowa. We find that mapping floral resource at the parcel level is critical for accuracy and that supply-demand deficits and surpluses are related to socio-economic factors.

**Anna Hess** is a Natural Resource Manager with the Minnesota Department of Natural Resources. Through this position she coordinates Nongame Program activities, public water permitting and water restoration activities, and the Scientific Natural Area Program throughout the Northeast portion of Minnesota. Anna started her career with the American Transmission Company, and worked for many years for the Wisconsin Department of Natural Resources through both the Karner Blue Butterfly Habitat Conservation Plan Partnership, and the Karner Blue Butterfly Recovery Program. Through her work with these agencies she developed cartographic ecological models to assist in Karner blue butterfly habitat community recovery. Today her work and research with pollinators spans across Minnesota and Wisconsin, including studies focusing on megaherbivore grazing and the subsequent influences on Lepidopteran habitat and behavior, and developing ecological models to aid habitat management. Together with her family of naturalist nerds, they independently research aspects of Lepidopteran habitat and the Wisconsin-Minnesota landscape. Anna has an academic background in cartography, GIS, geology, hydrology and watershed management, and habitat restoration.

**Bob Hess** is a forester who served as the Wisconsin Recovery Coordinator for the Karner blue butterfly from 2006 – 2017. His full-time career was with Wisconsin Department of Natural Resources from 1992 to 2003, working in forest protection, state wildlife lands management, private lands forestry assistance, as administrator of a 120,000-acre county forest, and as a forestry/wildlife team supervisor. As the Coordinator of Wisconsin's Karner blue butterfly recovery program, Bob developed a program of population monitoring and barrens habitat restoration for the Karner blue that reversed the decline of the Karner population in the state. When he retired from the Karner blue recovery program in 2017 Wisconsin was well on its way to meeting its federal recovery goals for the Karner blues. Post-second retirement, Bob serves as President of the Board for Oakdale Electric Cooperative in Central Wisconsin. He is also Oakdale's director-representative to Dairyland Power Cooperative, an electric generation and transmission cooperative located in La Crosse, Wisconsin. Bob holds a B.S. in Forestry from the University of Minnesota (1968) and a M.S. in Silviculture from the University of Wisconsin – Steven Point (1993).

<u>Chris Hiatt</u> was born into a beekeeping family in Ephrata, Washington in 1975. He and his five brothers grew up spending springs managing apple pollination in central Washington and summers pulling and extracting honey in North Dakota. Together they now own Hiatt Honey Co., started by their father 50 years ago. Chris splits his work year between Madera, California and Bowman, North Dakota running 20,000 hives. He also manages the business's almond orchard in Madera.

**Franklin Holley** as more than 12 years of experience in sustainable agriculture, community development, and conservation programming leading diverse efforts and groups of people to better outcomes for our people and our planet in both rural and urban settings. As a Senior Policy Director at Keystone, Franklin works on multi-stakeholder food and agriculture initiatives focused on soil health, water quality and scarcity, wildlife habitat and biodiversity, and ensuring solutions to these challenges work for agricultural producers, the supply chain, and end-users. Franklin holds an MS in International Agricultural Development from the University of California, Davis and a BA in Cultural Anthropology from the University of Virginia. Prior to joining Keystone, Franklin spent six years with the World Wildlife Fund's Sustainable Food Team managing agricultural supply chain initiatives and field programs that conserve nature, ensure farmer livelihoods, meet corporate business objectives, and contribute to feeding a growing population in a resource-constrained world. During her time at WWF, Franklin also served as Vice-Chair of Field to Market: The Alliance for Sustainable Agriculture where she now represents Keystone on the Board of Directors.

<u>Virginia Houston</u>, as Associate Director for Domestic and Government Affairs, is responsible for assisting in ASTA's federal legislative and regulatory initiatives. In addition, she assists with the advocacy efforts of the association through representing ASTA on Capitol Hill, tracking proposed legislation, coordinating comments and testimony to Congress, and managing the activities of SeedFirstPAC. Most recently Virginia was employed with the National Pork Producers Council, where she managed member outreach, legislative research and NPPC's political action committee. She held previous positions at the Animal Agriculture Alliance and Agriculture Marketing Service at USDA. A native of east Tennessee, Virginia grew up on a diversified cow/calf operation, and her family owns and operates the oldest livestock auction market in Tennessee. Virginia has a bachelor's degree in Political Science from the University of Mississippi and a master's in Political Management from The George Washington University.

**David Inouye** is Professor Emeritus in the Department of Biology at the University of Maryland, but is now living in Colorado where he spends 4-5 months at the Rocky Mountain Biological Laboratory. His research there includes one of the longest studies in the USA of flowering phenology, and the 45 years of data on timing and abundance of flowering are providing insights into how pollinators are being affected by climate change. He helped write the IPBES report on pollination, the National Academy study on pollinators, and is working with a group to establish a national monitoring plan for native bees. He has served on the NAPPC Steering Committee since 2001.

**Jill Jacobs** Spriggly's is a husband and wife team, Brannen Basham and Jill Jacobs, who made it their mission to develop an educational business that provides opportunities for individuals to learn more about nature while offering resources on how create environments that support beneficial wildlife. With a special focus on the 4,000+ species of native bees in North America, Spriggly's works with individuals, businesses, museums, municipalities, and more to increase environmental awareness. Spriggly's visits gardening festivals and special events providing educational talks and selling products for pollinators including native bee housing made from reclaimed and recycled wood and native wildflower seed bombs. Most recently, Spriggly's began working with the Asheville Museum of Science in Asheville, NC on developing and installing a seasonal exhibition space. The first installation, set to open in September, features the importance of native bees and late season pollinator plantings.

**Elizabeth Kaufman's** passionate interests in native pollinator conservation and biological corridor restoration led her to join the Pollinator Partnership in 2018 to work as P2's Monarch Habitat Coordinator. In-between earning her BA in Human Ecology from Prescott College, and MS in Plant Biology and Conservation from Northwestern University and Chicago Botanic Garden, Elizzabeth worked in the horticultural arts and sciences specializing in the restoration of native eco-scapes. Since then, Elizzabeth has worked with the Chicago Botanic Garden Plant Science Center as a Research Associate to investigate success rates of native seed mixes used in restoration work on federal lands, and with the Bureau of Land Management and National Park Service as a Project Lead / Plant Science Tech Crew Lead to conduct plant community field surveys, T/E species habitat assessments, and habitat restoration projects. Elizzabeth is thrilled to join the P2 team, enabling her to focus her efforts on landscape-scale pollinator habitat enhancement and conservation work.

**Gary Krupnick** is a research scientist at the Smithsonian's National Museum of Natural History, where he heads up the Plant Conservation Unit. He represents the Smithsonian on committees for plant conservation and pollination. Gary studies plant conservation biology, plant reproduction, the use of herbarium specimens to determine rarity and endangerment of plant species, and plant-pollinator interactions. He has conducted conservation assessments of the flora of Hawaii and the flora of the West Indies. He co-curated the traveling exhibition, "Losing Paradise? Endangered Plants Here and Around the World," a convergence of art, science, conservation. Gary serves on the steering committee of the North American Orchid Conservation Center and is the Vice Chair of the steering committee of NAPPC. He is the co-editor of the book Plant Conservation: A Natural History Approach (University of Chicago Press; 2005), and the editor of The Plant Press (newsletter of the U.S. National Herbarium).

<u>Kathleen Law's</u> interest in native plants and restoration ecology lead her to discover a love for pollinators and a fascination with their crucial role in sustaining ecosystems. She completed a Masters degree in geography at the University of Guelph, Ontario (Canada), where her research focused on farmer-centered and collaborative approaches to pollinator conservation on farmland. Her favourite research topics are landscape-level habitat provision and crop production interactions, and innovative governance approaches to environmental problems. Kathleen has volunteered on the North American Native Plant Society's Rescues and Restoration Committee, and led environmental leadership workshops and research internationally, notably in Guyana and Senegal. Based in Toronto, Ontario, Kathleen is engaged with both the urban and rural conservation communities, with a special place in her heart for farmers.

**Isaac Lisle** developed a love for biology and nature at a young age. Frequent trips to local zoos and nature parks, as well as the family farm in lowa nurtured this growing passion over the years, eventually leading him to pursue his B.S. in Conservation Biology at Union University in Tennessee, where he not only gained a valuable education, but had the opportunity to work for nonprofits across the nation during the summers. Upon graduation, he moved to San Francisco where he is pursuing a Masters of Environmental Management at the University of San Francisco. Isaac began working at Pollinator Partnership shortly after his move to the city, and is thrilled to have the opportunity to begin his career at such an influential and science based conservation organization. His duties at P2 include contributing to NAPPC projects and events as well as donor development.

**Becky Longenecker** is the northeast regional pollinator coordinator for the U.S. Fish and Wildlife Service. She facilitates a regional team, comprised of various USFWS programs, that is focused on implementing pollinator conservation. Some of the work accomplished by this team includes habitat restoration work on public and private land, pollinator inventory and monitoring, and public education and outreach. Becky began work as a Wildlife Biologist for USFWS after receiving her Ph.D. in Wildlife Ecology from the University of Delaware in 2015.

**<u>Clare Maffei</u>** is a Master's student at the University of Maryland, Baltimore County in the Geography and Environmental Systems Department. Her graduate work includes a single year survey of the bee and vegetation community composition in established pollinator meadows on the Eastern Shore of Maryland. She is interested in the intersection of pollinator conservation, urban ecology, and environmental justice. Clare is growing her naturalist skills and is excited to build partnerships with teams needing native plant and pollinator identification. When not working on her thesis, she is a consultant with the Chesapeake Bay Field Office of the US Fish and Wildlife Service.

**Lori Makarick** is an ecologist with the National Park Service (NPS), serving as the branch chief for Landscape Restoration and Adaptation with Natural Resource Stewardship and Science in Fort Collins, CO. She spent the majority of her adult life serving as the vegetation program manager at Grand Canyon National Park, and intimately knows the value of pollinators from her work there and her personal passions. In her current role, Lori coordinates NPS efforts for pollinator protection and conservation and she actively shares information with parks and regional staff.

**<u>Tim May</u>** Tim May is a third generation commercial beekeeper from outside of Chicago. Sunny Hill Honey manages 1500 colonies throughout Northern Illinois and Southern Wisconsin for honey production and regional pollination. Sunny Hill Honey has been packing and distributing honey under the brand since 1948. Tim May is the current president of the American Beekeeping Federation.

<u>Andony Melathopoulos</u> is an Assistant Professor in Pollinator Health Extension at Oregon State University. OSU's work around pollinator health comes from mandates passed by the Oregon Legislature. Andony has four primary responsibilities: 1) training pesticide applicators on how to control pests while minimizing impacts to pollinators, 2) a state-wide native bee survey (the Oregon Bee Atlas), 3) guiding residential beekeepers on how to prevent their bees from becoming a nuisance, and 4) hosting a weekly podcast on pollinator health (PolliNation). He also sits on the steering Committee of the Oregon Bee Project, which coordinates pollinator health work across state agencies. He has over fifteen years of experience in pollinator health extension and research, which includes 30 peer-reviewed papers and extension publications, 10 training courses and hundreds of presentations and workshops to people interested in helping pollinators.

Lora Morandin has been doing research on bees and pollination since 1997. She started out working on bee pollination of greenhouse tomatoes at Western University in Ontario and that grew into an interest in native pollinator conservation and sustainable agriculture. She then did a PhD at Simon Fraser University in British Columbia studying modern agriculture and pollinators, followed by post doctoral research at the University of California, Berkeley working on enhancement of native pollinators and natural enemy insects through small-scale farm restoration. Lora has more than 20 peer-reviewed publications on pollinators and sustainable agriculture, including innovative work on economic benefits of ecosystem services. She has consulted for government and industry on diverse ecological topics such as seabird oiling from offshore oil and gas operations, and honey bee health research gaps. Lora lives in Victoria, British Columbia and when she's not working part time for Pollinator Partnership Canada, spends time working on her urban farm and enjoying BC's beautiful natural areas. Lora is excited to be working with P2C to bring more research, outreach, and conservation of pollinators to urban and agricultural areas of Western Canada.

<u>Heather Moylett</u> is a risk analyst with USDA APHIS PPQ Science and Technology. One of her responsibilities is to provide scientific support to Science and Technology on pollinator issues, especially as it relates to agriculture. Heather is a subject matter expert with regulatory experience and expertise in pollinator biology and ecology. Prior to working with APHIS, Heather studied the impacts of land. management on wild, native bee communities in the Sandhills of North Carolina and also worked as the scientific assistant to Dr. Jerome Rozen at the American Museum of Natural History at New York. She is currently interested in how agricultural landscapes can be managed to shift pollination reliance from honey bees to local, wild pollinators.

**<u>Kristine Nemec</u>** is an ecologist and program manager at the University of Northern Iowa Tallgrass Prairie Center, providing training and education for Iowa's county prairie roadside programs, and conducting outreach. She received a B.S. in Environmental Studies and an M.A. in Biology from the University of Nebraska at Omaha, and a Ph.D. in Natural Resource Sciences from the University of Nebraska-Lincoln.

**Thalia Pappas** has just completed a 3-year assignment as a consultant for the Delaware Department of Agriculture, working with farmers, educators, homeowners, DE National Guard and state and federal employees to highlight their programs while creating and implementing strategies to improve pollinator health. Thalia's career with the DuPont Company included 21 years with Agricultural Products, initially in research heading up the global rice herbicide discovery team working with colleagues in the key markets of Japan, the US, and Europe, and South East Asia. In her subsequent role as a global regulatory manager she led regulatory science teams to generate data used to develop credible regulatory strategies, create product dossiers, and carry out negotiations with regulators with the goal of retaining permission to sell commercial agricultural products in our global markets. Thalia received a Ph.D. from Purdue University in Plant Physiology a M.S. in Horticulture from University of Arkansas, and a B.S. in Plant Science from the University of Delaware.

**<u>Cate Parker</u>** is the Associate Director of Community Partnerships at Cypress Creek Renewables. Cypress Creek is driven by the belief that solar makes our world cleaner and healthier. Cate believes solar development can create more than just renewable energy and is invested in creating responsible and meaningful partnerships in the communities Cypress Creek works with-- from creating habitat for pollinators to STEM programs to workforce development.

**Rande Patterson** received her B.S. in Ecology from Rice University and M.S. in Entomology from Texas A&M University. She is an environmental professional who has experience working with various industries including renewable energy, transportation, and oil and gas. She has worked with all phases of project implementation including field studies, regulatory permitting, client and agency coordination, and final reporting. Ms. Patterson is adept at coordinating with field technicians, project managers, and clients to ensure that environmental studies are being completed as proposed, on time, and on budget. Ms. Patterson is an entomologist with experience identifying, surveying for, and planning study designs for various insect species, including fire ants, bumble bees, cotton aphids, and the endangered American burying beetle. She is skilled in the design and implementation of field studies, including the collection and statistical analysis of data in various field settings and habitats. Ms. Patterson is involved in the growing field of pollinator protection as it relates to the energy industry.

**Mary Phillips** provides strategic and operational oversight of the National Wildlife Federation's signature program, Garden for Wildlife. Simultaneously, she facilitates organization wide conservation strategies for pollinators, monarchs and other wildlife. Since joining National Wildlife Federation in 2014, under Mary's leadership, program engagement has increased from 178,000 participating habitats to an additional 1 million plus planting a wide range of habitat for the monarch butterfly, pollinators and birds. The Garden for Wildlife network expanded to include approximately 20 state affiliate organizations and coordinates with conservation education staff across 7 regional offices. Mary helped to initiate and manage National Wildlife Federation's role in the following collaborations: first, with the United States Fish and Wildlife Service to "Save the Monarch", then with the White House Office of Science, Technology and Policy and The National Pollinator Garden Network to launch and facilitate the Million Pollinator Garden Challenge. Mary is also a steering committee member of the Monarch Joint Venture. Prior to NWF, Ms. Phillips was principal of MDP Strategies, a nonprofit management practice serving over 40 national clients advocating for youth and environmental education.

<u>Cora Lund Preston</u> is the Monarch Joint Venture (MJV) Communications Specialist. A graduate of the University of Minnesota, she uses her degree in Environmental Science, Policy and Management to engage various audiences in conservation actions. She works with MJV partners on online, print and in person education, outreach and communications projects to continue and advance monarch conservation work around the United States.

**Michael Retterer** is a graduate form the University of Rio Grande where he obtained his Bachelor of Science degree focusing on wildlife/fish conservation and management. He currently serves as a Coordinating Wildlife Biologist for Pheasants Forever, and the OPHI state coordinator where he works with landowners, state, and federal agencies providing technical assistance regarding the implementation of specific conservation measures and programs to improve wildlife habitat. Mike also works with a large group of diverse partners to help coordinate and influence habitat management efforts and participates in state wide meetings to further the mission of Pheasants Forever, OPHI, and statewide conservation efforts.

**Steven Reyna** is a Ph.D. candidate from Texas studying molecular biology of insects with Dr. Marce Lorenzen at NC State University. Steven has a BS in entomology for Texas A&M University where he studied population genetics in two agriculturally important pests of row crops. After his BS, he received his M.S. in Plant and Soil Science from Texas A&M University- Kingsville where he studied citrus mites in conventional and organic grapefruits. During his M.S. he received the Borlaug Fellows in Global Food Security graduate research grant, and traveled to Kenya and spent five months at icipe documenting citrus pests in Kenya. In his current research, Steven is evaluating if RNAi is a feasible control for the small hive beetle, a pest that infests honey bee hives.

**Lucas Rhoads** is a staff attorney at the Natural Resources Defense Council, where he works on a small team devoted to pollinator protection. He advocates for policies at the state and federal level to limit the use of pesticides, namely neonicotinoids, that harm bees and other pollinators. In addition, his team employs litigation and other legal strategies to enforce, defend, and strengthen protections for endangered and threatened species.

**Ashley Rohde** is a second year PhD student in the Department of Wildland Resources at Utah State University. Through a collaboration of the US Department of Agriculture-Agricultural Research Service, Utah State University, the US Geological Survey, and the US Fish and Wildlife Service, her dissertation work uses landscape genetics to measure characteristics of the distributions of bumble bees in western North America. This study focuses on *Bombus occidentalis*, a bumble bee species which is decreasing in abundance and range. The study measures historical and current gene flow among *B. occidentalis* populations and how it is affected by geographical and anthropogenic landscape barriers. Also, she will compare the genetic diversity within and among *B. occidentalis* populations to that of other bumble bee species which are believed to currently have stable abundances and ranges. Ashley completed her M.S. in biology at Boise State University in 2014, where she completed a thesis entitled "Influence of Wildfire Disturbance and Post-Fire Seeding on Vegetation and Insects in Sagebrush Habitats." She worked for several years with the USGS following her graduation, focusing on insect community and pollinator assemblage response to habitat disturbances such as wildfire, invasive species, and climate change.

<u>Kelly Rourke</u> is Program Coordinator for the Pollinator Partnership (P2). Kelly holds a degree in Environmental Studies and a minor in Anthropology from the University of California at Santa Cruz. Her background in ecology, conservation, and culture has propelled her career in the non-profit sector. Prior to P2, Kelly worked at another bay area-based environmental non-profit called Conservacion Patagonica (CP). CP's mission is to establish national parks in Chile and Argentina where there is not only fragile ecosystems, but also, complex cultural and societal struggles. Kelly is currently working towards a Master's of Science in Environmental Management at the University of San Francisco.

**Dara Satterfield** Dara's research focuses on migratory insects, including monarch butterflies. Dara recently finished a post-doctoral fellowship at the Smithsonian National Zoo, where she studied the ecological roles of migratory insects.

**Dolores Savignano** is the U.S. Fish and Wildlife Service (USFWS) liaison to the North American Pollinator Protection Campaign. She chairs the USFWS Pollinator Work Group, which works to raise awareness of and support for the value, conservation, protection, and enhancement of native pollinators and their habitats. The USFWS has a wide range of pollinator projects throughout the county and internationally. Dolores received a B.S. in Biology from Yale University, and a Ph.D. in Zoology from Univ. of Texas at Austin for her research on the facultative mutualism between Karner blue butterfly larvae and attendant ants.

**Elizabeth Sellers** (B.Sc. Honors – Botany & Geomorphology) has served the U.S. Geological Survey (USGS) as a Technical Information Specialist (Biology) for 11 years. She currently serves under the USGS Core Science Analytics, Synthesis and Libraries Program (http://www.usgs.gov/core\_science\_systems/csas/) acquiring and processing species occurrence data for the Biodiversity Information Serving Our Nation (BISON – http://bison.usgs.ornl.gov) species mapping application and US Node of the Global Biodiversity Information Facility (GBIF); working with Dr. John Ascher (AMNH) to update the bee taxonomic data and 2009 World Bees Checklist in the Integrated Taxonomic Information System (ITIS – www.itis.gov); and participates in the newly formed USGS Pollinator Research Community of Practice. She is also a co-author of the draft FWS National Bee Monitoring Protocol with Sam Droege (USGS), Joseph Engler (FWS), and Lee O'Brien (FWS).

**James Sherman** is a graduate of UC Berkeley in evolutionary biology, Jamie has been an energy project financier, C-level finance and operations manager, and water resource executive. He has also served on the boards of private and not for profit organizations, the later in chairman and development roles. In addition to natural history, Jamie enjoys fishing, ranching, sailing and woodworking. A fifth generation San Franciscan, he has lived and worked in Chicago, London, Sydney, and Los Angeles during his career. Jamie is married to his high school sweetheart, and is the father of three children, and a faithful Labrador.

**James Strange** is a Research Entomologist for the USDA-ARS at the Pollinating Insect- Biology, Management and Systematics Research Unit in Logan, UT. His work focuses on bumble bee genetics, pathology and commercial production. He is currently leading a nationwide bumble bee pathogen survey to understand the distribution and prevalence of potential bumble bee pathogen in the United States.

**Tom Van Arsdall** With three decades of experience in the national policy arena, Tom Van Arsdall is widely known and highly respected for his expertise and demonstrated track record on environmental, energy, bioenergy, ag research and conservation issues affecting U.S. agriculture, agribusiness and agriculture's "downstream neighbors." Tom currently serves as the Public Policy Representative for the Pollinator Partnership (P2) and the North American Pollinator Protection Campaign (NAPPC), managed by P2. He is particularly well known for helping diverse stakeholders work together toward consensus-based actions. He has a thorough understanding of the legislative and regulatory process and how to get results. Other current clients include the National Coalition for Food and Agricultural Research [Executive Director]; NCRA, a farmer-owned cooperative petroleum refinery; the Pesticide Policy Coalition; and biodiesel and biobased education and outreach for the United Soybean Board and the National Biodiesel Board. Tom received his MA in economic geography from the University of Illinois. Tom is an active outdoorsman, conservationist and river rat. Currently a houseboat is his home and office on the Chesapeake Bay.

**David Wagner** is a Sr. Project Manager on the EPC team at Cypress Creek Renewables. He leads teams responsible for the engineering, procurement, and construction of utility-scale photovoltaic solar across the continental US. David has experience integrating pollinator habitats within solar fields and co-locating honey bee hives next to the projects, and is excited about the shift in the solar industry to bring more solar pollinator integration.

<u>Kimberly Winter</u> is the National Manager of the U.S. Forest Service NatureWatch Program. With a Ph.D. in Wildlife Ecology and Management and a Master's degree in Ecological Anthropology, Dr. Winter seeks opportunities to connect people to nature, whether through teaching the interconnectedness of pollinators and their host plants, celebrating bats during Bat Week, or immersing outdoor enthusiasts in clear streams as part of the Forest Service's signature Freshwater Snorkeling Program. Dr. Winter loves all creatures great and small, and has worked for the NAPPC group as International Coordinator, sparking a special interest in the work of pollinator advocacy.

**Terry Witzel's** career has focused on agriculture, food processing and food distribution. He is also interested in promoting sustainable food systems and serves as a member of the San Mateo County Food System Alliance. Additionally, Terry serves on the Agricultural Advisory Council for the California State Fair. He joined the Pollinator Project because of its emphasis on the global and economic importance of pollinators in food crop production. Most recently, Terry managed food solicitation and procurement for both a regional and a local food bank until his retirement in 2011. Previously, he managed the California office of American Farmland Trust, working to protect productive farmland for future generations. He began his career with the largest U.S. farmerowned cooperative processor of private label canned fruits and vegetables and rose to the position of Vice President of Corporate Relations. Terry earned a B.S. in Agricultural Education from the University of California at Davis and an M.B.A. in Business Management from San Jose State University.

<u>Victoria Wojcik</u> is an optimistic ecologist and city dweller that believes human populations and the natural world can coexist. For the past five years she studied the impact of urban landscapes on local bee populations, with a particular focus on how habitat resources are perceived and used by urban bees. Her current interests lie in the fields of pollinator conservation and in continuing to understand how anthropogenic factors affect species living in close proximity to human settlements. Recently, she has become increasingly interested in how policy and management decisions impact conservation efforts within cities. Vicki's academic work has been published in peer-reviewed journals, books, and magazines. She received her B.Sc. Honours from the University of Guelph, Canada in 2004 and her Ph.D. in Environmental Science, Policy, & Management from UC Berkeley in 2009. In addition to her work at the Pollinator Partnership, Vicki holds an appointment as a lecturer in biology at the University of California, Berkeley.

<u>Hollis Woodard</u> received a PhD in Biology (2012) from the University of Illinois at Urbana-Champaign, where she worked with Dr. Gene Robinson on the molecular basis of social evolution in bees. From 2013-2015 she was a USDA-NIFA Postdoctoral Fellow working on the nutritional ecology of bumble bees with Dr. Shalene Jha at the University of Texas at Austin. In summer 2015, she became an Assistant Professor of Entomology at the University of California, Riverside. She is broadly interested in bumble bee behavior, physiology, and social biology, and in identifying the underlying mechanisms that allow bees to plastically respond to their environments, and ultimately persist on our rapidly-changing planet.