Science Advisory Committee Agenda

May 2, 2022, 9:30am – 2:00pm

Join virtually with Microsoft Teams

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   - +1 802-828-7667,,495266140# United States, Montpelier. Phone Conference ID: 495 266 140#
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Jamboard Link:
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Time	Topic	Description
9:30AM	**Opening Remarks**	Welcome, introduction to the Science Advisory Committee, instruction of tools used throughout the meeting.
Morning Core Theme – Getting Ready: What are the big picture challenges and how can we begin to address them?		
9:45AM	**Soil Health & Sustainable Agriculture**	Alissa White (Post-doctoral research associate, Gund Institute, UVM) - Alissa will be discussing her recent research evaluating the status of soil health on Vermont farms, discussing the metrics and processes used and the importance of soil health in water quality and farm sustainability.
10:05AM	**Vermont Climate Council & the Global Warming Solutions Act**	Ryan Patch (Agriculture Climate and Land Use Policy Manager, VAAFM) - Ryan will be discussing the agricultural sector and VAAFM's approach towards supporting and implementing agricultural climate mitigation and resilience building.
10:25AM	**NRCS Landscape Planning Tools & P-Index**	Joe Buford (State Resource Conservationist, USDA-NRCS) - The ACPF (Agricultural Conservation Planning Framework) is an NRCS tool that evaluates landscape needs for conservation planning and prioritization. Joe will discuss how this can work in Vermont, in coordination with other planning methods such as Tactical Basin Plans.
10:45AM	**Discovery Acres Research Model**	Joshua Faulkner (Research Assistant Professor, UVM Extension) - Discovery Acres is a participatory action research model, created to understand the impact of conservation practices on water and soil quality. In 2020, Discovery Acres was established on a privately-owned farm in the St. Albans Bay Watershed. Joshua will discuss exciting research projects beginning on this farm by Extension staff.

10:55AM	Break	
Midday Core Theme – Vermont Research: Nutrients and Management		
11:00AM	**Whole Farm Nutrient Study**	Heather Darby (UVM Extension Professor in agronomy and soils) - This active project will demonstrate how, through whole farm nutrient management, major improvements can be made to water quality through reduced phosphorus loading and improved farm viability. Heather will discuss how her team is working closely with five farms located in critical source areas to build a program that implements comprehensive phosphorus management strategies on a whole farm level.
11:20AM	**Tile Drain Filters**	Dave Braun (Stone Environmental) - Dave has ongoing extensive research into tile drains and the use of filters for water quality improvement and will share prior results and current projects.
11:40AM	**Field Practices to Decrease Phosphorus from Tile Drains**	Mike Winchell (Stone Environmental) - Mike will discuss this project that developed a model for representing edge-of-field phosphorus loads (surface and tile) and used the model to investigate the impacts of innovative manure management technologies on phosphorus loads.
12:00PM	Lunch	
Afternoon Core Theme – Bringing National Research to the Local Level		
12:30PM	**CEAP National**	Lisa Duriancik (National CEAP Watershed Assessment Leader, USDA-NRCS) - CEAP (Conservation Effects Assessment Project) is a multi-agency effort to quantify the environmental effects of conservation practices and programs and develop the science base for managing the agricultural landscape for environmental quality. Lisa will share some of the national efforts and her work helping to bring CEAP to Vermont.
12:50PM	**CEAP Vermont**	Joshua Faulkner (Research Assistant Professor, UVM Extension) - Joshua is leading a paired CEAP watershed (Conservation Effects Assessment Project) study in Addison County, as well as overseeing other CEAP-related efforts that have brought national resources to Vermont. He will share current efforts in these projects that are focusing on conservation practices and water quality impacts.
1:10PM	**Legacy Phosphorus & Conservation Practices**	Dr. Peter Kleinman (Research leader and Soil scientist, ARS, USDA, Associate Professor of Soil Science, Penn State University). Peter is nationally recognized as an expert in conservation practices and phosphorus and will highlight two key research areas: legacy phosphorus and avoiding potential conservation tradeoffs associated with phosphorus.
1:40PM	**Closing Remarks**	Bringing it all together, reflecting on core themes, looking forward.
2:00PM	Adjourn	