



Advisory Committee on Research Agenda

July 2, 2024

The Advisory Committee on Research (Committee) to the Land and Water Conservation Board (LWCB) will meet on July 2, 2024 at 9:00 am via Microsoft Teams. To attend the meeting, join by telephone at 608-571-2209 with Conference ID 444 464 631# or click the following Teams [hyperlink](#). The agenda for the meeting is shown below.

AGENDA ITEMS AND TENTATIVE SCHEDULE:

- 9:00 AM 1 Meeting Called to Order – **Ron Grasshoff, Committee Chair**
- a. Roll Call
 - b. Open meeting notice
 - c. Welcome Brian McGraw
 - d. Approval of meeting agenda
 - e. Approval of March 5, 2024 meeting minutes
- 9:10 AM 2 Discuss Committee's Suggestion for Bylaw Changes
Kirsten Biefeld, DATCP; Ron Grasshoff, Committee Chair
- 9:15 AM 3 Review 2024 Work Plan for the Advisory Committee on Research
Ron Grasshoff, Committee Chair
- 9:35 AM 4 Discuss 2023 LWCB Survey Report and Potential Board Presentations
Discuss and vote on list of potential presenters for October board meeting
Kirsten Biefeld, DATCP
- 9:50 AM 5 Member updates with possible discussion
- 9:55 AM 6 Planning for the next Advisory Committee Meeting
Suggested agenda/actionable items, discuss extended meeting time
Ron Grasshoff, LWCB
- 10:00 AM 7 Adjourn

Ron Grasshoff, Committee Chair;
Vice Chair - open

Members: Monte Osterman, Tim Anderson, and Brian McGraw
Advisors: Dr. Francisco Arriaga and Amber Radatz

**LAND AND WATER CONSERVATION BOARD
ADVISORY COMMITTEE ON RESEARCH
MEETING MINUTES**

**March 5, 2024
Microsoft Teams Meeting**

Item #1 Call to Order – Roll call, open meeting notice, approval of agenda, approval of March 5, 2024 Committee meeting minutes.

Call to Order

The Advisory Committee on Research (“Committee”) to the Land and Water Conservation Board (“LWCB” or “Board”) met via videoconference on March 5, 2024. The meeting was preceded by public notice as required by Wis. Stat. § 19.84. The meeting was started at 9:02am, and a quorum was not present until 9:14am.

Committee Members Present

Members: Ron Grasshoff, Monte Osterman, and Tim Anderson. A quorum was present at 9:14am.

Committee Advisors Present

Advisors: Dr. Francisco Arriaga.

Approval of Agenda

Motion

Grasshoff motioned to approve the agenda as presented, seconded by Osterman, and the motion carried unanimously.

Approval of Minutes

Motion

Osterman motioned to approve the draft minutes of the January 9, 2024 meeting minutes as presented, seconded by Anderson, and the motion carried unanimously. The approved minutes shall be posted as the official meeting record for publication on the LWCB website.

Item #2 Discuss 2023 LWCB Survey Report and Report Distribution Update

Kirsten Biefeld, DATCP, debriefed that there had been 6 responses so far, one of whom included a representative of the Dairy Innovation Hub who cited a willingness to connect to further researchers within the group.

Item #3 Review 2024 Work Plan for the Advisory Committee on Research

Ron Grasshoff, Committee Chair, opened this discussion to review the work plan approved in the January 9, 2024 meeting, which had originally been approved with the stipulation that it could be revised and updated in each LWCB Advisory Committee on Research meeting. The work plan was further

specified, including adding “Priority” and “Update Date” columns. Kirsten Biefeld is to send a reminder to the UW System stakeholders engaged in the February survey to garner more replies before the March 29 deadline.

Grasshoff suggested that the Workplan focus should not only include agricultural issues but also issues related to lakes and rivers, shoreland, wetlands, invasive species, and forestry because of Wisconsin’s diverse geography and natural resources. Arriaga suggested that Cooperative Extension could assist with engagement on these issues.

Motion

Osterman motioned to approve of the work plan updates, seconded by Anderson, and the motion carried unanimously.

Item #4 Discuss LWCB Committee Vacancy

Ron Grasshoff, Committee Chair, opened the floor to discuss filling the committee vacancy and methods of advertising the position to county board conservation departments. It was discussed that the matter of the vacancy and how to advertise for it would be subject in the April LWCB Board meeting.

Item #5 Member Updates with Possible Discussion

This item was not discussed.

Item #6 Planning for the next Advisory Committee meeting

The next Advisory Committee meeting will be pushed off until July 2nd, cancelling the May 7 meeting. The Committee should expect the following at the next meeting:

- Update regarding the responses for the UW System Outreach Survey received by the March 30th deadline.
- Update regarding the LWCB discussion regarding the Advisory Committee

Item #7 Adjourn

Motion

Osterman motioned to adjourn, seconded by Anderson, and the motion carried unanimously. The meeting was adjourned at 10:20am.

Respectfully submitted by,

Kirsten Biefeld, Bureau of Land and Water Resources
Division of Agricultural Resource Management
WI Department of Agriculture, Trade and Consumer Protection

Current Workplan for the LWCB Committee on Research

Topic/Issue	Goals	Actions	Timeline	Priority	Status
Distribution of survey	Kirsten + Ron, Committee with feedback, draft for distribution letter,	develop the audience, mailing list, review draft,	circulations by February and response by April Board meeting		February 2024, reach out to 20-30 contacts, have had 6 responses, including Dairy Innovation Hub. Natural Resources Institute, Division of Extension
Frequency of survey	time with board terms, UW Extension utilizing survey results in annual work plans,	Developing an audience, changing the frequency if there was a new audience to collect information from	proposed: 4 years to parallel with board terms (2 years long)		2026 for next survey?
Annual UW Reflection and Engagement	reach out to UW partners annually to review what work has been done, and UW partners utilizing survey results in grant opportunities. Get responses from survey distribution before developing UW reflection meeting	Asking researchers to present on their findings, people that respond to survey distribution? (First step) Who would be interested audience - Board and what other partners? Hybrid meeting between committee members and UW representatives in a central location within the state (long-term).	Ask for reflections January 2025	Asking their progress/process to addressing specific research item, may be connected to additional studies coming out	Do one more follow up of original contacts before March deadline
Board Education Opportunities	presentations by UW partners to the board at meetings, L&W Association inviting partners to their conference, 1-2 presentations in 2024	Preparing a list of potential presenters and their topics to LWCB board chair, develop a description for potential presenters citing the value of UW to present here, description of the board's mission and how they fit in	Prepare a list this spring, have list available to board by fall quarter to plan 2025 agendas		topics we want to focus on? Wait after March deadline to determine who to invite to board meetings, discuss with chair of whos able to present,

Proposed LWCB Advisory Committee on Research 2024 Workplan

Updated: 6/17/24

Committee Purpose:

University of Wisconsin System on research and outreach needs relating to soil & water conservation. The Committee will provide oversight of a sustainable, lasting process which involves all Board members and advisor organizations as part of the normal agenda of the Board.

Topic	Goal	Action	Timeline	Person(s) Assigned	Status	Notes
Frequency and Distribution of Survey	Develop and use survey to receive input from stakeholders to understand gaps in L&W resource management to advise UW System	1. Baseline Survey of Needs	1. Survey completed in June 2023		1. Completed and distributed	
		2. distribution of survey report and survey to establish contacts within UW System	2. Distribution Survey Feb-March 2024	Kirsten Biefeld, Ron Grasshoff, Amber Rattiz	2. Reached out to 20-30 contacts, have had 13 responses, 4	
		3. Propose to conduct survey every 4-5 years	3. Next Survey in 2026, potentially			start thinking on this next year, if this makes sense after we have a couple of board
Educational Opportunities	UW Engagement: Annual meeting between LWCB and UW partners to review what work has been done, and UW partners utilizing survey results in grant opportunities	1. use distribution survey contact list to invite participants to an online reflection form 2. host hybrid meeting between communities	Annually Annually? Long-term			
	LWCB Educaton: Educational opportunities aimed to help board make recommendations to UW System	1. prepare list of potential presenters and topics to LWCB board chair	Suggest up to 3 presentations to the board per year	Have committee decide on potential presenter. Kirsten Biefeld and Ron Grasshoff suggest these presenters to the board		
Advising and Recommendations	LWCB creates recommendations to UW System based on educational opportunities		annually? Bi-annually, switching off with survey period?	TBD		Revisit this item after we have a board presentation completed

Distribution Survey Responses for Potential LWCB Board Presentations

Name and Occupation	Research Focuses	Notes
Chelsea Zegler , UW-Madison Division of Extension, Agriculture water Quality Outreach Specialist	Outreach on current soil and water practices, researching groundwater quality and the effectiveness on different cover crop species on nitrate leaching, outreach on where soil and water quality overlap.	Recommended as a potential first presenter by Kirsten and Katy due how related research is to priorities listened within the 2023 Soil & Water Conservation Research and Educational Needs Survey Report
Mark Ruark , Professor of Soil Fertility and Nutrient Management	Reducing nitrate leaching to ground water from fertilizer in the central sands, using cover crops with manure applications to reduce nitrate leaching, soil health assessments across Wisconsin agricultural systems	Recommended as a potential first presenter by Kirsten and Katy due how related research is to priorities listened within the 2023 Soil & Water Conservation Research and Educational Needs Survey Report
Kevin Masarik , UW-Madison Division of Extension & UW-Stevens Point, Groundwater Specialist	Nitrate contamination of groundwater, impacts of agricultural practices on nitrate leaching, PFAS and groundwater	
Michael Cardiff , UW-Madison Geoscience Professor	Measuring nitrate leaching to groundwater via edge-of-field methods; surveying Wisconsin Rural residents on primary concerns related to water resources; investigating methods for enhanced recharge to dilute water quality issues	
Anita Thompson , UW-Madison Department of Biological Systems Engineering Professor and Department Chair	<ol style="list-style-type: none"> 1. Multi-scale and regional approach to cold season hydrology and nutrient dynamics in agroecosystems for water quality protection. 2. Tools Integrating Landuser Management Decisions with Watershed Processes to Achieve Water Quality Goals 3. Implications of Climate Change and Biofuel Development for Great Lakes Regional Water Quality and Quantity 	
Erin Berns-Herrboldt , UW-Green Bay Assistant Professor of Water Science	Interactions between surface and GW & Surface Water Quality on phosphorus in streams and rivers; Ground water quality and potential for arsenic release; Groundwater quality and Soil physical properties and behavior based on PFAS leaching	
Maria Woldt , Dairy Innovation Hub program Manager	Nutrient Management Planning on WI Dairy Farms; Costs and Benefits of Manure Management Regulations for soil and water	Maria Woldt would be a contact for the Dairy Innovation Hub to help

	sustainability; prairie strips on nutrient cycling and biodiversity in crop production systems; manure application and tillage systems; biochar incorporation into manure systems for improving air quality and odor management; automated rotational grazing and assessment on its impact on animals and foraging.	access specific researchers that work within the hub. the research topics are ones Maria suggested for our group's interests
Guolong Liang , UW-Madison Division of Extension Commercial Vegetable Agriculture Water Quality Outreach Specialist	Crop Fertility recommendation of processing crops in Wisconsin Central sands; Outreach for On-farm nitrogen mass balance estimation in WI Central Sands	
Ken Genskow , UW-Madison Professor	Program planning and evaluation for water outreach programs. Collaboration/networks/engagement for watershed planning and management Social indicators for watershed planning and management	
Steven Hall , UW-Madison, Assistant Professor and Extension Specialist in Agricultural water Quality	My team is evaluating practices and cropping systems that can reduce nitrate leaching to groundwater and surface water. We are also assessing co-benefits of these practices for reducing greenhouse gas emissions, increasing soil carbon storage, increasing soil health, and decreasing input costs.	
Laura Good , WU-Madison, Department of Soil Science Scientist	Estimating runoff P losses based on land management, manure and fertilizer applications, and field conditions with the WI P Index	
Melissa Scanlan , Center for Water Policy at UWM's School of Freshwater Sciences Professor and Director	Solving the Phosphorus Paradox: Five States' Approaches to Restoring Nutrient-Impaired Surface Water Quality; UW System Water Policy Network, Report on Research Agenda for Phosphorus in Wisconsin	Has presented to the board within the last year