

# SOIL CARBON AND SUSTAINABILITY WORKSHOP

## PROGRAM

	Topic	Speaker
9.00 am	Welcome	
9:15 am	Sustainability in the Limestone Coast	Dr Mardi Longbottom
9:35 am	How does the Limestone Coast stack up?	Dr Mardi Longbottom
<b>10.00 am</b>	<b>Coffee break</b>	
10:30 am	McElroy Family case study - Padthaway	Casey Lodewyk
10:50 am	Penley Estate case study - Coonawarra	Hans Loder
	Vineyard walk with Hans	Hans Loder
12.15 pm	<b>Lunch</b>	
1:00 pm	Introduction to the AWRI and University of Adelaide soil carbon project	Dr Mardi Longbottom and Dr Thomas Lines
1:15 pm	Cover crops, carbon stocks and a confluence of co-benefits	Dr Joseph Marks
1:45 pm	Emissions Reduction Fund (ERF) methodologies and applications	Ed Scott
2:00 pm	Exploring the methodology of carbon sampling under-vine	Dr Joseph Marks and Dr Thomas Lines
2:40 pm	Integrating soil carbon data into Sustainable Winegrowing Australia	Dr Mardi Longbottom
3:00 pm	Soil organic carbon stocks under contrasting management practices: a state-wide snapshot	Dr Joseph Marks and Dr Thomas Lines
3:30	<b>Close</b>	

**Tuesday, 23 May**  
9.00am – 3.30pm

**Penley Estate**  
McLean Rd, Coonawarra  
SA 5263

[REGISTER HERE](#)

**Booking is essential.**

For more information, please contact AWRI Events  
Ph. 08 8313 6600 | Email: [events@awri.com.au](mailto:events@awri.com.au)

This project is supported by the Limestone Coast Landscape Board through funding from the Australian Government's National Landcare program and the following project partners:





**Dr Mardi Longbottom, Manager Sustainability and Viticulture, AWRI**

Mardi began her career in the wine industry in the early 1990s helping to establish her family's vineyards in Padthaway, South Australia. Shortly afterwards she gained her viticultural degree and held technical and vineyard management positions across numerous Australian wine regions. Mardi returned to the University of Adelaide in 2002 where she completed a Masters and PhD in Viticulture and was a Lecturer in Viticulture. For the past ten years, Mardi has focused on wine industry sustainability projects including regional climate risk analyses, benchmarking greenhouse gas emissions from vineyards and the management of corporate water assets. She now manages the Australian wine industry's sustainability program, Sustainable Winegrowing Australia. Mardi is a graduate of the SA Governor's Leadership Foundation Program, and a former director of Australian Grape and Wine Inc. and the Australian Society of Viticulture and Oenology.



**Casey Lodewyk, Viticulturist, McElroy Family Vineyard, Padthaway**

Casey is a third-generation farmer managing her family's 845 ha mixed farming property just west of Padthaway. She works with her husband Brent, parents Krysteen and Bradley, grandfather Jeffrey and now fourth-generation, daughter Billie. Their property encompasses 61 ha of vineyards, broadacre and irrigated cropping, of which they specialise in small seeds, pasture and breeding sheep and cattle. Their goal for their vineyard is quality not quantity, so each year they are looking for ways to improve their yields, sustainability, inputs and overall health of the vines. With the help of consultant Michael Zerk, they are maintaining quality produce through pest and disease management and tools to measure their resources and vine health.



**Hans Loder, Viticulturist, Penley Estate, Coonawarra**

Hans has lived and worked in the region for close to 20 years. He continually pushes convention, leverages technical insights and actively embraces AgTech, in order to ensure viticultural integrity and sustainability of production on the estate. Late last year this approach facilitated Penley's Sustainable Winegrowing Australia certification, going from training to audit in a matter of months.



**Dr Thomas Lines Research Fellow, School of Agriculture, Food and Wine, The University of Adelaide**

Since completing his PhD, and for the past five years, Dr Tom Lines has conducted research into vineyard floor management while working at The University of Adelaide. Recently, he expanded his research to include apple orchard management, and successfully secured a five-year grant to investigate cover cropping in almonds in both the Riverland (SA) and Riverina (NSW). Tom has established viticultural trial sites in The Limestone Coast and Riverland regions and worked on established trial sites in Langhorne Creek and the Barossa Valley. Collaborating with the AWRI on the 'Drivers of Carbon' initiative is a highlight of his developing career.



**Dr Joe Marks, School of Agriculture, Food and Wine, Soil Ecology Group, Waite Research Institute, The University of Adelaide**

Dr Joe Marks is a recent PhD graduate whose research focuses on vineyard floor management practices across several sites in South Australia. His PhD research investigated the influence of cover crops on arbuscular mycorrhizal fungi, soil organic carbon dynamics and plant litter decomposition. Joe's primary aim is to support grapegrowers to better understand challenges and convey the outcomes of his research to enhance sustainability within the Australian wine industry and beyond. Joe has a strong interest in exploring the ecological intensification of agroecosystems – applying ecological thinking to practical solutions in industry – with an emphasis on quantifying soil-carbon dynamics throughout South Australian vineyards and other agroecosystems.



**Edward Scott, BSc, CPSS, Soil & Land Co.**

Ed has been involved with soil management advisory for viticulture from soil survey through to soil carbon management. Ed has a passion for understanding soils and their interaction with plants in production systems. He will cover the structure of the Australian carbon market and how it can fit in with viticultural production systems.