



LegacyNet Conference 2024 programme 5th – 7th March 2024 Lucan Spa Hotel, Dublin, Ireland

| Day 1: Tuesday 5 th March 2024 | |
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| Time | Details |
| 09:15 – 10:00 | Registration and coffee |
| 10:00 – 10:30 | Welcome to the LegacyNet conference from the LegacyNet Directors. <i>Speakers: Carsten Malisch, John Finn, Caroline Brophy.</i> |
| 10:30 – 11:00 | Analysing individual sites of LegacyNet data using Diversity-Interactions modelling. <i>Speaker: Caroline Brophy.</i> |
| 11:00 – 11:30 | Coffee |
| 11:30 – 12:00 | Using the <code>DImodels</code> R package to analyse LegacyNet data. <i>Speaker: Rafael Moral.</i> |
| 12:00 – 13:00 | Tutorial session 1*: Reading your LegacyNet data into R and analysing it using the Diversity-Interactions modelling approach. |
| 13:00 – 14:00 | Lunch |
| 14:00 – 14:30 | How to analyse multiple LegacyNet responses across multiple time points using the <code>DImodelsMulti</code> R package. <i>Speaker: Laura Byrne.</i> |
| 14:30 – 15:30 | Tutorial session 2*: Analysing data from multiple harvests across the LegacyNet grassland ley phase. |
| 15:30 – 16:00 | Coffee |
| 16:00 – 16:30 | Bringing the analysis of LegacyNet data to life with novel visualisations using the <code>DImodelsVis</code> R package. <i>Speaker: Rishabh Vishwakarma.</i> |
| 16:30 – 17:30 | Tutorial session 3*: Interpreting and visualising analysis from individual LegacyNet sites. |
| 17:30 – 18:30 | Publications Committee meeting 1. Publications Committee members only. |
| 19:30 | Dinner for all at the Lucan Spa Hotel restaurant. |

**Please have a laptop with R and R Studio installed on it and the `DImodels` R package installed (instructions will be provided). If you don't bring your own laptop, you can join in with another participant and work in a pair. No prior R experience is required, code and support will be provided on the day. If you have a LegacyNet site, please have your data to hand to analyse. If you don't have a LegacyNet site, data will be supplied to you to use, or you can bring data from another study examining the biodiversity and ecosystem function relationship. Optional (but recommended!) preparation is to watch the three videos on the 'why', 'what' and 'how' of DI models available at <https://dimodels.com/>. Tutorial session tutors: Caroline Brophy, Laura Byrne, Hannah Comiskey, Catherine Hurley, Rafael Moral, James O'Malley, Rishabh Vishwakarma.*



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| Day 2: Wednesday 6th March 2024 | |
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| Time | Details |
| 09:00 – 09:20 | The origins of LegacyNet. If you've ever wondered how LegacyNet came about, then wonder no more! <i>Speaker: John Finn.</i> |
| 09:20 – 11:00 | The LegacyNet publications strategy (discussion): Initial planning, work underway and future directions. <i>Chair: John Finn.</i> |
| 11:00 – 11:30 | Coffee |
| 11:30 – 13:00 | Multi-site paper (20 min talk plus discussion): The effects of species diversity in grassland mixtures on yield in an international multi-site experiment. <i>Speaker: James O'Malley. Chair: Caroline Brophy.</i> |
| 13:00 – 14:00 | Lunch |
| 14:00 – 15:00 | Invited keynote talk (45 min talk plus questions). Using grasslands to improve agroecosystems: A case study with US Conservation Reserve Program grasslands. <i>Speaker: Kathryn Yurkonis. Chair: Carsten Malisch.</i> |
| 15:00 – 15:30 | Coffee |
| 15:30 – 16:30 | Multi-site paper (15 min talk plus discussion): Identifying the drivers of functional group and species-level dynamics over time in an international multi-site grassland experiment. <i>Speaker: Hannah Comiskey. Chair: Carsten Malisch.</i> |
| 16:30 – 17:00 | Multi-site paper (discussion): The effects of species diversity in grassland mixtures on their forage quality in an international multi-site experiment. <i>Chair: Carsten Malisch</i> |
| 17:00 – 18:00 | Publications Committee meeting 2. Publications Committee members only. |
| 19:30 | Dinner for all at the Lucan Spa Hotel restaurant. |



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| Day 3: Thursday 7 th March 2024 | |
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| Time | Details |
| 09:00 – 10:00 | Invited keynote talk (45 min talk plus questions). From research to practice: Grass-legume mixtures as a pillar for agroecology. <i>Speaker: Andreas Lüscher. Chair: Caroline Brophy.</i> |
| 10:00 – 11:00 | Flash talks (submitted abstracts). <ol style="list-style-type: none"> 1) Speaker: Sebastian Meyer. Title: Species and functional group richness increase multifunctionality in intensively managed grasslands. 2) Speaker: Meret Kaspereit. Title: First insights into differences in species composition and dynamics of two European sites within the LegacyNet multisite experiment. 3) Speaker: Ali Sultan Khan. Title: Increasing sward diversity by inclusion of legumes can provide yield sustainability at lower nitrogen application rates. 4) Speaker: Ievina Sturite. Title: Performance of species and species mixtures in climate with short growing season. 5) Speaker: Giovanni Peratoner. Title: Diversity effects on the mitigation of overwintering damages on <i>Plantago lanceolata</i>, <i>Trifolium repens</i> and <i>Trifolium pratense</i>. 6) Speaker: Martijn Bezemer. Title: Conspecific and heterospecific soil legacy effects on grass productivity. 7) Speaker: Gaëtan Louarn. Title: The older the better? Delayed complementarity, overyielding, and improved residue composition in ageing alfalfa-fescue mixtures. <p><i>Each talk is 4 minutes presentation + 3 minutes for 1-2 questions and turnover for next speaker. Time will be strictly adhered to; additional questions can be asked in the coffee break. Chair: Caroline Brophy.</i></p> |
| 11:00 – 11:30 | Coffee |
| 11.30 – 12:00 | Engagement with LegacyNet stakeholders (discussion): maximising the impact of LegacyNet. <i>Chair: Carsten Malisch.</i> |
| 12.00 – 13:00 | The LegacyNet publications strategy (discussion): Where are we now? Future directions and next steps to implement the strategy. <i>Chair: John Finn.</i> |
| 13:00 – 14:00 | Lunch |