

CV Wenche E. Dramstad

Position: Senior research scientist / Head of Landscape monitoring department
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Career:

2011- **Professor in landscape ecology at the Dept. of landscape architecture, Faculty of Landscape and Society, Norwegian University of Life Sciences (20% position)**
Responsible for the landscape ecology course (LAA370, MSc level)

2011- **Member of FAGUS advisory team**

2010- **Research professor at the Norwegian Institute of Bioeconomy Research (NIBIO)¹**
Head of landscape monitoring department, Survey and Statistics Division

Main responsibilities include management of and reporting from research projects and the Norwegian monitoring programme for agricultural landscapes. The research team of the Survey and Statistics Division in NIBIO includes natural and human geographers, ecologists, botanists, soil scientists as well as experienced users of advanced GIS-tools, geomatics and database technology and experience on interpretation of aerial photographs and satellite imagery. The team has a wide national and international network.

1997-09 **Research scientist at the Norwegian Forest and Landscape Institute¹**

Education:

2002-10 **University of Life Sciences, Norway (UMB)²**
Special student following independent study plan at the Dept. of Landscape Architecture and Land Use Planning. Courses included history of landscape architecture, Norwegian law, plant physiology, computer aided design, drawing and design.

1992-96 **Agricultural University of Norway (NLH)**
Ph.D.-studies in landscape ecology, Dept. of Biology and Nature Conservation. Courses included: Statistics, philosophy of science, pollination ecology and geographic information systems. Thesis: "The landscape ecology of bumblebees: Importance of spatial distribution of resources."

1994 **Graduate School of Design, Harvard University, Cambridge, USA**
Special student for one semester, doing courses in landscape ecology, site ecology, fundamentals of computer aided design, advanced topics of computer aided design, analysis and management of visual landscapes, in addition to one independent study resulting in the book "Landscape ecology principles in landscape architecture and land-use planning" published by Island Press / Harvard University.

1992 **Nordic Ph.D. course:** Pollination ecology

¹ The Norwegian Institute of Bioeconomy Research (NIBIO) was established July 1st 2015 through merging the Norwegian Institute for Agricultural and Environmental Research, the Norwegian Agricultural Economics Research Institute and the Norwegian Forestry and Landscape Institute.

² The Agricultural University of Norway (NLH) changed name to University of Life Sciences (abbreviated UMB) January 1st 2005. From 2014, the University changed its abbreviation to NMBU. I have used the new name when referring to events taking place from 2005/2014 onwards; elsewhere I have used Agricultural University of Norway.

1986-90 Agricultural University of Norway, M.Sc. in Nature conservation and management
Thesis entitled: "Water chemistry and benthic fauna as indicators of water pollution in the river Glomma in Østfold."

1997 - Additional coursework include
Arc-GIS, presentation techniques, media skills, project management and vegetation ecology. Participated in AFF's mentoring program for new leaders (2004-05).

Current responsibilities:

- Head of the landscape monitoring department; a cross-disciplinary team of 11 researchers. I thus also participate in annual and strategic planning in the division
- Current and recent externally funded research projects I have been involved in include;
 - "VALUECHANGE: Valuation of Cultural and Environmental Goods for Integrated Assessment and Decision-making: From Promise to Practice".
 - "UrbanLand: Planning and sustainable urban land use"
 - "Space, land and society: challenges and opportunities for production and innovation in agriculture based value chains" (AGRISPACE)
 - "Structural changes in agriculture, rural communities and cultural landscapes" (STRUCTURES)
 - "Managing the transition to a "smart" bioeconomy" (BIOSMART)
 - "Securing triple bottom line outcomes from bioenergy development and innovation in rural Norway" (TRIBORN)
- Member of the IALE-Europe Executive Committee since September 2017. Previously responsible for a workgroup focused on application of landscape ecology
- On the Editorial board of Landscape and Urban Planning in the period 2002-2006 and again since 2014 and on Editorial board of Frontiers in Environmental Sciences, Land Use Dynamics section, since 2018.

Research interests:

Particularly interested in landscape ecology as a bridge between ecologists and landscape architects / land use planners, the development and use of landscape indicators, communication of landscape change, adaptive management, sustainable development and how landscape influence people's experience of their surroundings.

Refereed publications (since 2012):

Roussel, H., Eikaas, I.-L., Dramstad, W.E. & Thorén, A.-K. H. Submitted. 'Applying landscape ecology in planning at local level, some experiences.' Submitted for publication by Land.

Nørstebø, V.S., Krøgli, S.O., Debella-Gilo, M., Perez-Valdes, G.A., Uggen, K.T. & Dramstad, W.E. Submitted. 'Identifying suitable bioeconomic cluster sites - Integrating GIS-MCDA and Operational Research methods.' Submitted for publication by Environment, Development and Sustainability.

Stokstad, G., Krøgli, S.O. & Dramstad, W.E. Submitted. 'The looks of agricultural landscapes – how does non-crop landscape elements contribute to the visual preferences in a large scale agricultural landscape?' Submitted for publication by Norwegian Journal of Geography.

Dramstad, W.E. & Sundli Tveit, M. In press. 'Teaching landscape ecology.' In; Jørgensen, K., Karadeniz, N., Mertens, E. & Stiles, R. (Eds), "Teaching landscape". To be published by Routledge.

Stokka, T., Dramstad, W.E. & Potthoff, K. 2018. 'The use of rented farmland in an area of intensive agricultural production in Norway.' International Journal of Agricultural Sustainability: 1-12.

Jimenez-Martinez, G., Potthoff, K. & Dramstad, W.E. 2017. 'Integrating landscape ecology into landscape planning – How to overcome the communication gap?' Kart og Plan, 77: 1-10.

Díaz-Varela, E., Fernandez-Campo, M., Rodríguez-Morales, B., Dramstad, W.E. & Fjellstad, W.J. 2017. 'Ecosystem services mapping for detection of bundles, synergies and trade-offs: examples in two Norwegian municipalities.' Ecosystem Services, 28: 283-297.

- Dramstad, W.E. & Fjellstad, W.J. 2016. 'Landscape ecology as a framework for sustainable landscape planning.' *Chinese Landscape Architecture*, 32: 22-27.
- Dramstad, W.E. & Sundli Tveit, M. 2016. 'Landscape as pattern or process' In Jørgensen, K., Clemetsen, M., Halvorsen Thorén, A.K. & Richard, T.K. (Eds.) "Mainstreaming landscape through the European Landscape Convention", Routledge, pp. 46-59.
- Lüscher, G., et al. 2016. 'Farmland biodiversity and agricultural management on 237 farms in 13 European and two African regions.' *Ecology* 97, 1625-1625. (Data paper)
- Gundersen, V., Clarke, N., Dramstad, W.E. & Fjellstad, W.J. 2015. 'Effects of bioenergy extraction on visual preferences in boreal forests: a review of surveys from Finland, Sweden and Norway.' *Scandinavian Journal of Forest Research*, 31, 323-334.
- Krøgli, S.O., Dramstad, W.E. & Skar, B. 2015. 'World heritage and landscape change - heritage buildings and their changed visibility in the coastal landscape of Vega, Norway.' *Norwegian Journal of Geography*, 69: 121-134.
- Krøgli, S.O., Fjellstad, W.J., Heggem, E.S.F., Dramstad, W.E., Eiter S. & Puschmann, O. 2015. 'Landskap i ruter - et fleksibelt system for landskapsanalyser.' *Kart og Plan* 108: 329-342.
- Sang, N., Dramstad, W.E. & Bryn, A. 2014. 'Regionality in Norwegian farmland abandonment: Inferences from production data.' *Applied Geography*, 55: 238-247.
- Koppen, G., Sundli-Tveit, M., Sang, Å. & Dramstad, W.E. 2014. 'The challenge of enhancing accessibility to recreational landscapes.' *Norwegian Journal of Geography*, 68: 145-154.
- Dramstad, W.E. & Fjellstad, W.J. 2013. 'Twenty-five years into "our common future": are we heading in the right direction?' *Landscape Ecology*, 28: 1039-1045.
- Kadlecova, V., Dramstad, W.E., Semancikova, E. & Edwards, K.R. 2012. 'Landscape changes and their influence on the heterogeneity of landscape of the South Bohemian Region, the Czech Republic.' *International Journal of Sustainable Development & World Ecology* 19, 546-556.

Selected other publications (since 2012):

- Framstad, E., Bryn, A., Dramstad, W.E. & Sverdrup-Thygeson, A. 2018. Grønn infrastruktur. Landskapsøkologiske sammenhenger for å ta vare på naturmangfoldet. NINA-report 1410.
- Dramstad, W.E. & Pedersen, C. 2018. Dagens kanarifugler jobber ikke i gruvene. Letter to the editor. Klassekampen; 2018-04-11.
- Jimenez-Martinez, G., Dramstad, W.E., Eiter, S. 2017. Et miljømessig bærekraftig landbruk: mål, utfordringer og tiltak. NIBIO-POP, Volume 3: 18.
- Dramstad, W.E. 2017. Arealplanlegging på jordet. Letter to the editor. Klassekampen; 2017-06-06.
- Stokstad, G., Fjellstad, W.J., Eiter, S., Dramstad, W. 2017. 3Q: Monitoring agricultural landscapes in Norway. NIBIO-POP, Volume 3: 19
- Fjellstad, W., Eiter, S., Puschmann, O., Stensgaard, K., Bentzen, F., Wallin H-G., Dramstad, W. & Krøgli, S.O. 2016. Overvåking av Havrå kulturmiljø. NIBIO Report 164/2016
- Krøgli, S.O., Dramstad, W., Puschmann, O., Eiter, S. 2016. Langtidsovervåking av fredete kulturmiljøer. Veileder for innsamling av data. NIBIO Report 159/2016
- Dramstad, W.E. 2016. Statistiske kart i bevegelig terreng. Letter to the editor. Klassekampen; 2016-07-14.
- Stokstad, G., Fjellstad, W.J. & Dramstad, W.E. 2016. Overvåking av jordbrukets kulturlandskap. NIBIO-POP Volume 2: 34.
- Fjellstad, W. J., Dramstad, W.E., Clarke, N. & Gundersen, V. 2015. Bruk av skog til bioenergi - betyr det noe for opplevelsesverdier? NIBIO-POP Volume 1: 5.
- Dramstad, W.E., Timmermann, V., Gobakken, L.R., Lange, H. & Dibdiakova, J. 2015. Livsløpsanalyser (LCA). Fakta fra Skog og landskap: 09/15.
- Dramstad, W.E. & Bjørkhaug, H. 2015. Sustainable agriculture – leading the way to the future we want. In: Stokstad, G. & Eiter, S. (eds). *Agrispace: Background, concepts and frameworks*. Pp. 9-17. Ås: Norwegian Forest and Landscape Institute (Report 12/15)
- Blumentrath, C., Stokstad, G., Dramstad, W. & Eiter, S. 2014. Agri-environmental policies and their effectiveness in Norway, Austria, Bavaria, France, Switzerland and Wales: Review and recommendations. Ås: Norwegian Forest and Landscape Institute (Report 11/14)
- Dramstad, W.E. & Pedersen, C. 2014. Vipa varsler om vår - men stiller krav til arealene. Fakta fra Skog og landskap: 13/14.

- Åström, J., Dramstad, W.E., Debella-Gilo, M., Hovstad, K.A., Åström, S. & Rusch, G.M. 2014. Assessing Norwegian pollination deficits. Capacity building towards IPBES, with implementation and methodological evaluation of the Protocol to detect and assess pollination deficits in crops. NINA report 1101.
- Dramstad, W.E., Olson, J.D. & Forman, R.T.T. 2014. Selections from Landscape ecology principles in landscape architecture and land-use planning. In: Projective ecologies. Reed, R. & Lister, N.-M. (eds). Graduate School of Design, Harvard University / Actar publishers, NY, pp. 126-134.
- Krøgli, S.O. & Dramstad, W.E. 2013. Landskapet og bygningene, slår de følge? In; Flø. B.E. (ed) Kulturarv og verdiskaping i eit kyst- innlandsperspektiv. Trondheim, Norsk senter for bygdeforskning / Norwegian Centre for Rural Research Report 2/2013: pp. 98-133.
- Helenius, J., Dramstad, W.E. & Hermansen, J.E. 2012. Future Agriculture -report from the evaluation committee concerning the first phase (2009-2012) of the research platform Future Agriculture at SLU.
- Dramstad, W.E., Mazzoni, S. & Fjellstad, W.J. 2012. Jordvern og arealplanlegging. Fakta fra Skog og landskap 03/12.
- Lüscher, G., et al., 2012. Plant, earthworm, spider and bee diversity in agricultural fields of grazing and field crop farming systems in eight regions across Europe. In: Stoddard, F., Mäkelä, P. (eds): Abstracts, 12th Congress of the European Society for Agronomy, Helsinki, 20.-24.8.2012. Maataloustieteiden laitoksen julkaisu 14: 116-117.

Selected presentations at conferences and seminars (since 2012):

- 2018: Potthoff, K. & Dramstad, W.E. Management of Rented Farmland in Norway. Presented at the PECSRL 2018 Clermont Ferrand-Mende, September 2018.
- 2018: Krøgli, S.O., Nørstebø, V.S., Debella-Gilo, M., Perez-Valdes, G.A. & Dramstad, W.E. Exploring Scenarios for Sustainable Bioeconomic Resource Use and Industrial Cluster Locations. Poster at the EGU conference, Vienna, April 2018.
- 2018: Mauseth, M. I, Dramstad, W. & Bang, C. 2018. Urban ponds – the interface between biodiversity conservation and human interaction. Poster presented at OIKOS Conference, Trondheim, February 2018.
- 2017: Dramstad, W.E., Fjellstad, W.J., Pedersen, C. & Bell, G. A Norwegian Map of Ecosystem Services (no-mess) – Visualising multiple services to improve land use planning. Sustainability Science Conference, Trondheim, October 2017.
- 2017: Jimenez Martinez, G., Dramstad, W.E. & Loupa-Ramos, I. Landscape ecology; Do we learn from our doing? IALE-conference, Ghent, September 2017
- 2016: Clarke, N., Dramstad, W., Kvakkestad, V., Prestvik, A. & Refsgaard, K. Innovation in the Bioeconomy – more than biotech and food! NIBIO seminar, February 2016.
- 2016: Dramstad, W.E., Stærkebye Nørstebø, V., Krøgli, S.O., Debella-Gilo, M. & Perez-Valdes, G.A. Locating resources and using them wisely in the transition to a "smart" bioeconomy. Poster presented at NoRest Conference, Copenhagen, October 2016.
- 2015: Dramstad, W.E. & Puschmann, O. Jordbrukslandskapets endringer i kart og bilder. Presented at a seminar organised by the County Governor's office, Lillehammer, October 2015.
- 2015: Dramstad, W.E. Norwegian agriculture – innovations or traditions or both? Presented at a seminar organized by Monté, Evora, Portugal, September 2015.
- 2015: Jordbruksarealer – våre nye oljebrønner? Presented at a seminar organized by Norske Felleskjøp under Arendalsuka, Arendal, August 2015.
- 2014: Dramstad, W.E. Hvordan oppnå flerfunksjonell blågrønn infrastruktur i by? Presented at a seminar organized by the organisation Cities of the future, Trondheim, September 2014.
- 2013: Dramstad, W.E. & Sang, N. Agricultural subsidies as driving forces of change in Norwegian agricultural landscapes. Presented at Nordic Geographers Meeting, Reykjavik, June 2013.
- 2013: Dramstad, W.E. & Pedersen, C. Monitoring the landscape of the Northern lapwing et al. Presented at the International Association for Landscape Ecology meeting, Manchester, September 2013.
- 2012: Dramstad W., Krøgli S.O., Fjellstad W. Trends in land use change inside and outside high-value areas. Poster at EcoSummit 2012: Ecological sustainability - Restoring the Planet's Ecosystem Services. Columbus, Ohio, 30th Sept. – 5th Oct. 2012.
- 2012: Dramstad, W.E. Dialogue & Difficulties. Presented at RESILIENCE THINKING -Coordinating Science and Action for the Governance of Socio-Ecological Systems, an international workshop at the University of Venice, May 2012.