

Registration

All delegates must register by
20th March
to participate in the workshop.

To register, please email your name
and affiliation to:
sean.blacklocke@ucd.ie

HYDROFOR Project Partners



UNIVERSITY COLLEGE CORK
Coláiste na hOllscoile Coraigh



NUI Galway
OÉ Gaillimh



Marine Institute
Foras na Mara



Understanding Water Quality and Aquatic Ecology in Forested Catchments in Ireland

END-OF-PROJECT WORKSHOP

GEORGE MOORE AUDITORIUM
SCIENCE BUILDING—EAST
UNIVERSITY COLLEGE DUBLIN



8th April 2014

The workshop is free of charge and
open to all interested parties.

Questions?

Telephone: +353 (0)86 054 7745

Email: sean.blacklocke@ucd.ie

<http://www.ucd.ie/hydrofor/workshop.pdf>



The HYDROFOR Project is a six-year, inter-institutional co-operative project funded by the Environmental Protection Agency (EPA) and the Department of Agriculture, Food and the Marine (DAFM). A multi-disciplinary group of researchers at University College Dublin (UCD), University College Cork (UCC), National University of Ireland, Galway (NUIG) and the Marine Institute have been working together to explore the relationships between forests and forestry operations in Ireland and the surface water quality and ecology upon which they can impact.

From initial afforestation to harvesting and subsequent replanting, planting and clearfelling operations undertaken without due regard to relevant site sensitivities, and in the absence of appropriate mitigation measures, can bring about increased sedimentation and eutrophication of nearby surface waters. The forests themselves can also act as pathways for the deposition of acidifying pollutants in certain acid-sensitive catchments. The ultimate objective of HYDROFOR's researchers is to construct a knowledge base of key forest and water interactions from which predictions about critical impacts and improvements can be made.

HYDROFOR's researchers have combined new findings generated in their own field studies with data from similar previous and concurrent studies in Ireland to construct a comprehensive dataset on forest and water interactions.

- New information from the HYDROFOR Project includes:
- Multi-season water quality & biological data from mature coniferous forest catchments in various Irish geographies
 - Instrumented surface and subsurface water quality and biological data from clearfelling site runoff
 - Instrumented water quality data from planting site runoff
 - GIS data for sources, pathways, receptors & measures.

The HYDROFOR Project is holding an end-of-project workshop on water quality and aquatic ecology in forested catchments in Ireland. The workshop is open to all pre-registered delegates and will be free of charge.

Interactive participation from key personnel at Ireland's Environmental Protection Agency, Department of Agriculture, Food and the Marine, Department of Environment, Communications and Local Government, River Basin District Projects, Inland Fisheries Ireland, Sustainable Water Network, Society of Irish Foresters, Coillte, and its private foresters is highly encouraged.

The project is also seeking participation from other researchers studying forest and water interactions in Ireland. Others with expertise in forest and water interactions are also very welcome to participate, as are non-experts in Ireland and abroad wishing to become more familiar with the subject.

The workshop's objectives are to:

- Communicate the HYDROFOR Project's key findings and familiarise workshop participants with its outputs; and
- Provide a forum for a discussion of appropriate forestry measures for the protection and improvement of water quality in Ireland's rivers and lakes.



Workshop on Understanding Water Quality and Aquatic Ecology in Forested Catchments in Ireland

Chairman: Professor Emeritus Ted Farrell, UCD

Agenda

- 0900-0905 **HYDROFOR Project & Workshop Introduction**
Professor Emeritus Ted Farrell, UCD
- 0905-0925 **Forest and Water Interactions**
Dr. Tom Nisbet, Forest Service UK
- 0925-1005 **Forest and Water Interactions Policy in Ireland**
Dr. Alice Wemaere, EPA;
Mr. Kevin Collins, Forest Service, DAFM
- 1005-1045 **Mature Conifer Forest Impacts on the Water Quality and Aquatic Ecology of Acid-Sensitive Rivers**
Dr. Hugh Feeley, Cardiff University;
Dr. Mary Kelly-Quinn, UCD
- 1045-1100 *Coffee Break*
- 1100-1200 **Clearfelling Impacts on Peatland Rivers**
Dr. Joanne Finnegan, RPS Consulting Engineers;
Dr. Mark Healy, NUIG; Mr. John Clarke, UCD;
Professor Michael Bruen, UCD
- 1200-1230 **Assessment of a Riparian Buffer Strip to Mitigate Clearfelling Impacts on a Peatland River**
Dr. Joanne Finnegan, RPS Consulting Engineers;
Dr. Mark Healy, NUIG
- 1230-1300 *Lunch (provided)*
- 1300-1345 **Windrowing Impacts on River Water Quality**
Mr. John Clarke, UCD; Professor Michael Bruen, UCD
- 1345-1445 **Effects of Forestry on Small Peatland Lakes**
Dr. Conor Graham, UCC; Dr. Simon Harrison, UCC
- 1445-1545 **Mitigation Measures to Address River & Lake Impacts from Mature Forests and Forestry Operations**
Dr. Philip O'Dea, Coillte
- 1545-1600 *Coffee Break*
- 1600-1700 **Open Discussion**
Moderator: Professor Steve Ormerod, Cardiff University