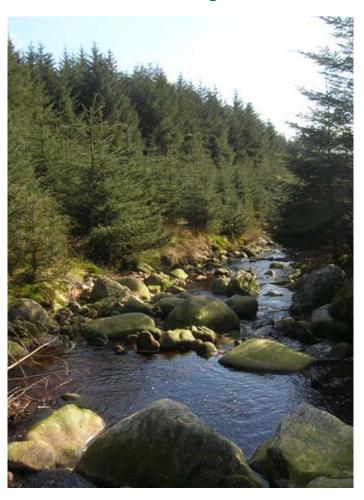
#### **Registration**

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



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

# HYDROFOR Project Partners









#### **Questions?**

Telephone: +353 (0)86 054 7745 Email: sean.blacklocke@ucd.ie

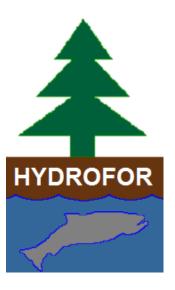




# Understanding Water Quality and Aquatic Ecology in Forested Catchments in Ireland

**END-OF-PROJECT WORKSHOP** 

GEORGE MOORE AUDITORIUM SCIENCE BUILDING—EAST UNIVERSITY COLLEGE DUBLIN



8th April 2014

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



The HYDROFOR Project is a six-year, inter-institutional cooperative 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 preregistered 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 U

## 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