

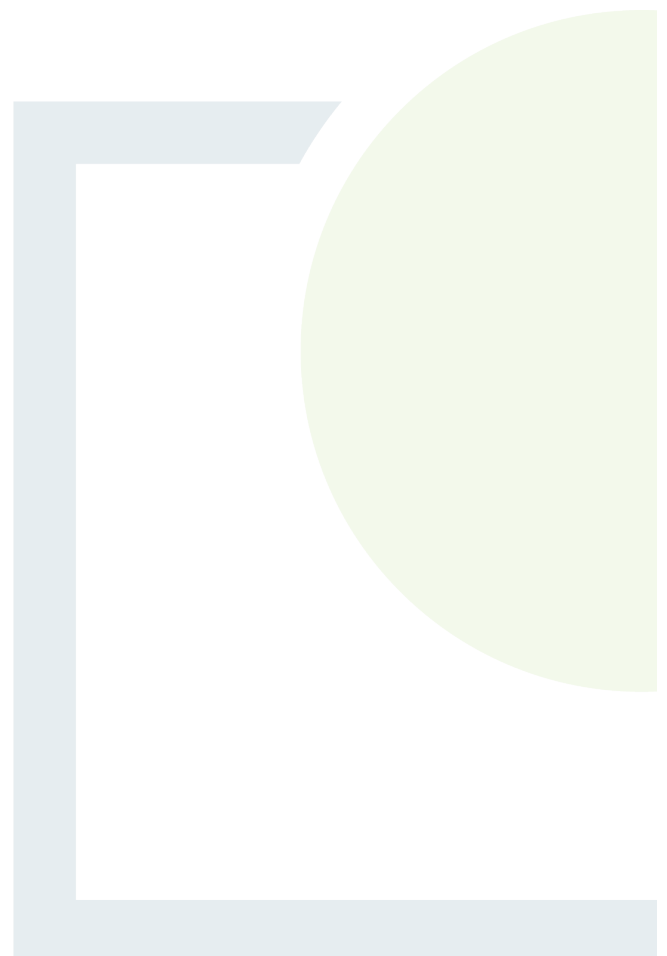


**FEHILY  
TIMONEY**

**CONSULTANTS IN ENGINEERING,  
ENVIRONMENTAL SCIENCE  
& PLANNING**

# **Appendix 1.1**

Curricula Vitae





# Trevor Byrne

Senior Engineer



CONSULTANTS IN ENGINEERING,  
ENVIRONMENTAL SCIENCE  
& PLANNING

## Profile

Trevor works as a Senior Engineer for Fehily Timoney and Company. Trevor holds a Master's degree in Sustainable Energy Systems from the University of Edinburgh and an honours degree in Civil Engineering following his studies at Edinburgh Napier University and Cork Institute of Technology. Trevor is part of the Energy and Environment division at FT and is a chartered member of Engineers Ireland. His primary area of expertise is in the planning, design and construction of renewable energy projects.

Trevor gained much of his experience in wind farm development working on a large number of projects in the UK renewable energy industry over the past number of years and has helped to deliver a variety of projects employing different technologies including onshore wind, hydro and solar PV. He also has experience working in the Irish construction industry and has worked in the US on a variety of civil/environmental projects.

Trevor has considerable environmental engineering and environmental impact assessment experience and is a proven project manager. He also has significant on site experience relating to managing the construction of renewable energy developments

## Key Skills

Trevor has experience in the following:

- EIAR, EIA
- Project Management
- Statutory and Public Consultation
- Oral Hearing
- Renewable Energy Development Design and Construction
- Site Supervision
- Detailed Design
- Strategic Infrastructure Developments

## Previous Experience Essentials For This Project

- **Teevurcher Windfarm, 2018**  
Teevurcher is a development in Co. Meath. FT are acting as designer to the Design and Build contractor, Roadbridge, for the construction of all onsite infrastructure associated with the development. Trevor successfully project managed all aspects of the detailed design for the project, liaising with the main contractor's management and coordinating the design team including the development's drainage system.
- **Moanvane Windfarm, 2017**  
Moanvane is a development in Co. Offaly. FT acted as the planning consultant for the client and project supervisor for the design stage of the project. Trevor produced the outline construction environmental plan for the site as part of the environmental impact assessment for the project as well as producing the traffic and transportation section of the environmental impact assessment including a traffic impact assessment.

## Key Information

### Qualifications

MSc. Sustainable Energy Systems  
University of Edinburgh  
2008-2009

BSc. (Hons), Civil Engineering  
Edinburgh Napier University  
2006-2008

BEng. (Ord), Civil Engineer  
Cork Institute of Technology  
2002-2005

### Professional Memberships

Chartered Engineer

Member of Engineers Ireland

### Employment History

#### 2016- Present

Fehily Timoney & Company  
Senior Engineer

#### 2012 – 2016

Greenspan, Edinburgh, UK  
Project Manager

#### 2010 – 2012

Cardinal Resources LLC,  
Pittsburgh, PA, USA  
Project Engineer

#### 2005 – 2007

O'Shea Leader Consulting Engineers,  
Cork  
Graduate Engineer



# Trevor Byrne

## Senior Engineer



CONSULTANTS IN ENGINEERING,  
ENVIRONMENTAL SCIENCE  
& PLANNING

- **Knockacummer Windfarm Grid Connection, 2017**

Knockacummer is a 20km long 110kV grid connection project in Co. Cork for which FT acted as Employer's Engineer for the client. Trevor managed the coordination and supervision of full time site staff throughout the construction stage to ensure that the project was delivered in accordance the engineer's designs and specifications, the client's health and safety framework as well as statutory obligations, and the project's environmental management plan.

- **Gortfinbar Wind Farm, 2016**

Gortfinbar is a 5 no. wind turbine development in Co. Tyrone. FT are acting as designer to the Design and Build contractor, DMKL, for the construction of onsite roads, hardstandings, substation and all other infrastructure associated with the wind farm development. Trevor successfully project managed all aspects of the detailed design for the project, liaising with the main contractor's management and coordinating the design team.

- **Sliabh Bawn Wind Farm, 2016**

Sliabh Bawn is a 20 turbine project in Co. Roscommon. FT are acting as designer to the Design and Build contractor, Alexander for the construction of a series of walking trails, riding tracks and recreational areas throughout the wind farm. Trevor is managing the design contract on behalf of FT for this project.

- **Cairnmore Windfarm and Solar Park Hybrid, Scotland, 2015**

Cairnmore is a 4MW solar PV park in North Aberdeenshire. The site is located on a farm with a pre-existing wind farm with which the SPV scheme shares a grind connection. Trevor acted as project manager and coordinated the design, construction and procurement of the project on behalf of the client. The scheme was commissioned in early 2016 and is now generating successfully in tandem with the existing wind farm. This was the largest combined technology scale project of its type in Scotland at the time of commissioning. The main challenges associated with this project related to ensuring the exported electricity from the combined wind/solar scheme was able to meet the power quality requirements of the network. This was solved through a cooperative design process between the private electrical design team and the network operator.

- **Millvale Solar PV, 2017**

Millvale is a 15MWp solar photovoltaic generation scheme near Rathnew in Co. Wicklow for which FT were appointed by the client, BNRG, to gain planning permission. Trevor project managed the planning application and associated Environmental Report for the proposed Wicklow Solar Farm, including 38 kV substation and associated ancillary works. Lead contributor to the Environmental Report and responsible for coordination of overall project team members, including landscape and visual, ecological and archaeological sub-consultants. Responsible for extensive consultation during the planning process, including attendance at meetings with key stakeholders.



# Jim Hughes

Planner



CONSULTANTS IN ENGINEERING,  
ENVIRONMENTAL SCIENCE  
& PLANNING

## Profile

Jim Hughes has a BA in Public Administration (Development) from the University of Limerick, a Masters in Town Planning from Queens University Belfast and a Diploma in EIA/SEA Management from University College Dublin. Jim is also a member of the Irish Planning Institute.

Jim is a Qualified Town Planner with over 16 years post qualification planning experience in both the private and public sector. He has extensive experience in providing strategic level advice to clients and negotiating with and presenting to local authorities. Jim has experience in the management, coordination and preparation of planning applications, masterplans and Environmental Impact Assessments for mixed use schemes and large scale infrastructure projects throughout Ireland. He also has experience in the preparation of retail impact studies, planning appeals, Section 5 declaration applications and zoning submissions.

Jim has represented clients on planning enforcement matters and as expert witness at oral hearings. He is also experienced in peer review and preparation of independent planning assessments and appraisals on behalf of clients. Jim has also experience in delivering seminars to the Financial Sector on planning matters on the importance of protecting the planning asset.

Jim has acted as planning lead on a number of high profile infrastructure projects. Including the South Docklands Road infrastructure upgrade works including the Eastern Gateway Bridge, Dunkettle Interchange Road Project where FT are engaged by SISK as contractors designer. He is also planning lead on the N4 Road project where FT are engaged by Roadbridge as contractors designer.

## Key Skills

- Project Management
- Strategic Planning
- Planning Process
- SID
- CPO
- Oral Hearing
- Planning Appeals
- Planning Applications
- EIA

## Previous Experience Essentials For This Project

Current (2018 – Present)

### Lead Planning Consultant on the Dunkettle Interchange Road Project

Responsible for planning input into the Detailed Design including planning compliance. Jim also lead the Design Team in pre-application consultations with An Bord Pleanála to discuss potential amendments to the scheme.

### Lead Planning Consultant on the N4 Realignment Collooney to Castlebaldwin Road

Responsible for planning input into the Detailed Design including planning compliance and compliance with the EIA Directive and Habitats Directive.

[www.fehilytimoney.ie](http://www.fehilytimoney.ie)

## Key Information

### Qualifications

BA in Public Administration (Development), University of Limerick (2002)

MSc. Town Planning, Queens University Belfast (2004)

Diploma in EIA/SEA Management, University College Dublin (2008)

### Professional Memberships

Member of the Irish Planning Institute

### Employment History

#### 2020 – Present

Fehily Timoney & Company  
Director

#### 2017 – 2020

Fehily Timoney & Company  
Associate Director

#### 2015 – 2018

Fehily Timoney & Company  
Senior Planner

#### 2007 – 2015

Cunnane Stratton Reynolds (CSR)  
Senior Planner

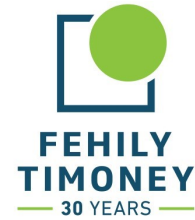
#### 2004 – 2007

Cork County Council  
Area Planner



# Jim Hughes

Planner



CONSULTANTS IN ENGINEERING,  
ENVIRONMENTAL SCIENCE & PLANNING

## **Lead Planning Consultant for extension Waterford Airport Airfield Runway**

Jim was project director and planning lead on the EIAR for the Waterford Airport Runway extension. The project required the preparation of an EIAR and AA for the project and as the facility was not subject to EIA previously the EIAR had to consider the overall facility and its environmental impacts.

## **Lead Planning Consultant for Apron and Taxi Way extension at Dublin Airport**

Jim was engaged by DAA to provide planning consultancy services and planning strategy for the extension of Apron and taxi ways. Jim and his team prepared a planning strategy and a supporting EIA Screening Report.

## **Lead Planning Consultant on the redevelopment of the Lee Road Water Treatment Works, Cork City.**

Services included preparation of planning and environmental report and the coordination of the planning submission and further information.

## **Planning Consultant for Shannon Commercial Properties, a large Mid-West Development company.**

Jim is regularly commissioned by SCP to provide planning advice on their land and commercial portfolio in the mid-west region. Jim leads the preparation of Planning Appraisals, Development Plan submissions and planning strategy report with an objective of protecting and enhancing the planning asset.

## **Lead Planning Consultant for the development of 800 residential units in Kilbarry, Co. Waterford.**

Services included preparation of EIAR for the overall masterplan development and submission of individual planning applications connecting to the future LIHAF road.

## **Lead Planning Consultant on the Coom Green Energy Park Strategic Infrastructure Development Project.**

Project Director for the EIAR project which consists of a 27 no. turbine wind farm in North Cork. The project includes the preliminary design, public consultation and preparation and submission of application for approval to ABP.

## **Lead Planning Consultant on the Rosspile Solar Energy Park**

Responsible for planning input into the project including a SID application for the 110kv electricity infrastructure and grid route.

## **Lead Planning Consultant and project director for 12 solar farm planning application nationwide**

Jim was project director for a number of planning applications nationwide. Activities include pre-planning consultations with the local authority. Public Consultation events and preparation of design and planning and environmental reports.

## **Lead Planning Consultant for the Moanvane Wind Farm and Cable Route**

Jim was project manager and lead planning consultant for the preparation and design of Moanvane Wind Farm and cable route in Co. Offaly. The scope of works included and EIAR, Preliminary design of the wind farm and cable route including a recreation and amenity trail.

## **Lead Planning Consultant for Drehid Wind Farm and Cable Route**

Jim was project Director and lead planning consultant for the preparation and design of Drehid Wind Farm and cable route in Co. Kildare. The scope of works included and EIAR, Preliminary design of the wind farm and cable route including a recreation and amenity trail.

## **Foreshore License Cork Harbor**

Jim was engaged by Port of Cork to prepare a Foreshore License pre-application consultation for Site Investigations within Cork Harbor.

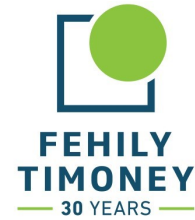
## **Marine Spatial Planning**

Jim was engaged by the Port of Cork to prepare a written submission on the National Marine Planning Framework.



# Jim Hughes

Planner



CONSULTANTS IN ENGINEERING,  
ENVIRONMENTAL SCIENCE & PLANNING

2017

### **Lead Planning Consultant for Castletownmoore Wind Farm**

Jim was lead planning consultant and project manager for this 21-turbine wind farm in Co. Kildare. Services included the preparation and submission of SID application. Pre-application consultations with ABP. Specialist planning advice into subsequent Judicial Review High Court case.

2016

### **Preparation and coordination of planning application for 50 no. dwelling units in Croom Co. Cork**

Preparation of an integrated tourism masterplan for tourism site on the banks of the River Shannon Co. Clare. Preparation and submission of a masterplan for a tourism facility on the banks of the River Shannon in County Clare. The application included a number of short-term letting units, waste water treatment unit, tourism facilities and welfare facilities.

### **Preparation and submission of planning application for a recreation facility at the old Burlington Plan, Co. Clare.**

Jim was retained by Zinc Properties to manage their property portfolio including developing masterplans for the redevelopment of their facilities.

2015

### **Planning Lead for Ballyvolane District Centre.**

Services included preparation of an EIAR and the management and coordination of a design team for the An Bord Pleanála Oral Hearing.

2008 – 2014

### **SID Pre-Planning consultation with An Bord Pleanála for Local Authority Marina development in Cork.**

Services include written submission to ABP for a determination on EIA and NIS requirements for the Marina Development.

### **Strategic Review of Dursey Island and Cable Car. .**

In conjunction with AECOM and TDI, Jim prepared an overall economic and tourism development strategy for Dursey Island.

### **Bilberry Mixed Use Development Waterford.**

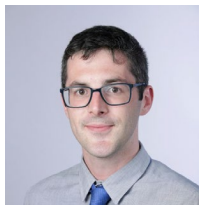
Lead Planning Consultant and contribution to the EIS and planning submission for the regeneration of the south western docklands area of Waterford City. The scheme consisted of 11 no. development blocks ranging in height from one floor to thirty floors over basement level.

### **Old Ford Distribution Site Cork South Docklands.**

Coordinated a multi-disciplined team of 5 Architects, preparation of EIS and planning submission for the largest planning scheme (Atlantic Quarter) ever received by Cork City Council. The scheme included 50,000 sq.m of office space, 500 residential units, hotel, event centre and retail.

### **Eastern Gateway Bridge and upgrade of Road infrastructure**

Commissioned by Cork City Council to prepare an EIS and planning application for the redevelopment of the Cork South Docklands road infrastructure including the Eastern Gateway Bridge with Architects Wilkinson Eyre. The bridge connected the Cork South Docklands with the Lower Glanmire Road.



# Eamon Hutton

Senior Project Planner



CONSULTANTS IN ENGINEERING,  
ENVIRONMENTAL SCIENCE  
& PLANNING

## Profile

Eamon Hutton is a Senior Project Planner with Fehily Timoney and Company and works as part of the Energy and Environment Team.

Eamon is a Chartered Town Planner with the Irish Planning Institute and holds a BSc in Spatial Planning and a MSc in City Planning and Regeneration which he received from the University of Glasgow. Eamon holds a Post-Graduate Diploma in Urban Design (University of Strathclyde).

Eamon has gained a wide range of experience with Fehily Timoney and Company, focusing on EIA, Wind, Solar and Residential Development.

## Key Projects

- **Annagh Wind Farm, Co. Cork**  
Project manager of planning and environmental submissions for a 6 no. wind turbine development in North County Cork. Roles include planning lead, EIAR coordination and production of EIAR chapters including Description of the Proposed Development, Alternatives, Population & Human Health and Telecommunications and Aviation.
- **Fahy Beg Wind Farm, Co. Clare**  
Assistant project manager for planning and environmental submission for an 8 no. turbine wind farm in East County Clare (ongoing).
- **Coom Green Energy Park, Co. Cork**  
Contribution to EIAR including chapters: population and human health, alternatives, policy, consultation, introduction and interactions. Involved with public consultation including information nights, technical workshops and door to door consultation. 2018-2020. Planning permission submissions for on-site met masts.
- **Croaghaun Wind Farm, Co. Carlow**  
Contributed to EIAR including chapters: population and human health, alternatives, policy, consultation, introduction and interactions.
- **Edenderry Power Plant, Co. Offaly (Bord na Móna)**  
Contribution to EIAR for the Policy Chapter of the proposed conversion of the Edenderry powerplant from Peat to Biomass. 2021
- **Dernacart Wind Farm, Co. Laois**  
Contributed to EIAR including chapters: alternatives and interactions.
- **Drehid Wind Farm, Co. Kildare**  
Contribution to EIAR and planning statement for wind farm development. Scoping & consultation, population & human health, alternatives, interactions and planning statement.
- **Derrysallagh Grid Connection Substitute Consent, Co Sligo, Leitrim, Roscommon**  
Input and preparation of a remedial Environmental Impact Assessment Report for substitute consent for the grid connection of the Derrysallagh Wind Farm. Landscape and policy assessment, interactions and non-technical summary. Preparation of planning application notices and documents.

## Key Information

### Qualifications

MSc City Planning & Regeneration,  
University of Glasgow, 2016

Post Graduate Diploma in Urban  
Development  
University of Strathclyde, 2016

BSc Spatial Planning  
Dublin Institute of Technology, 2012

### Professional Memberships

Corporate Member of the Irish  
Planning Institute

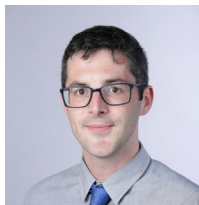
### Employment History

#### 2017- Present

Fehily Timoney and Company  
Graduate Planner  
Project Planner  
Senior Project Planner

#### June – August 2019

Brookfield Renewable Ireland  
Secondment  
Project Planner



# Eamon Hutton

Senior Project Planner



CONSULTANTS IN ENGINEERING,  
ENVIRONMENTAL SCIENCE  
& PLANNING

- **Waterford Airport Runway Extension, Co Waterford**

Contribution to EIAR for Waterford Airport runway extension 2018/2020. Introduction, description of the development, policy, scoping and consultation, traffic and transportation, landscape and visuals and interactions. Coordination of EIAR and submission of planning application to An Bord Pleanála.

- **Kilbarry Residential and Solar Park Development, Co Waterford**

Contribution to EIAR for a residential development of 750 dwellings and an adjoining solar park. Introduction, description of development, policy, population, human health and material assets, EIA screening, alternatives, interactions and non-technical summary. Preparation of planning documents and statutory notices.

- **OPW - Flood Risk Assessment & Management Plans - Department of Public Procurement.** Review of Strategic Environmental Assessment and Appropriate Assessment documents for the national Catchment Flood Risk Assessment & Management Plans produced by the OPW. Content and procedural Review of all 36 plans and environmental assessments.

- **Mixed Residential and Commercial Development - 5 Victoria Road, Cork City**

Planning input for a 9 story apartment block including café and restaurant at ground floor. Inputs included mobility management plan, planning statement and coordination of request for further information.

- **Rosspile Solar Farm, Co Wexford - Highfield Energy**

Preparation of planning application and statutory notices as well as input to the environmental report for a c. 150ha solar farm in Co. Wexford. Involved with public consultation and site walkovers.

- **Flood Defence – Castletroy, County Limerick**

Planning application and multi-discipline coordination for flood defences on IDA lands at Castletroy, County Limerick.



# Maureen Marsden

Project Acoustic Engineer



CONSULTANTS IN ENGINEERING,  
ENVIRONMENTAL SCIENCE  
& PLANNING

## Profile

Maureen is a Project Acoustic Engineer with Fehily Timoney & Company. She has an MEng in Acoustics and Vibration from Southampton University (Institute of Sound and Vibration Research). She is a member of the Institute of Acoustics and Engineers Ireland.

Maureen has over 20 years' experience across a broad range of acoustics & vibration. She has experience of noise and vibration measurement and assessment across a variety of sectors, including building, industrial and transportation projects.

## Previous Experience Essentials For This Project

### • Wind Farm Projects

Baseline Noise Measurements and analysis to determine prevailing background noise. Compliance measurements to determine if operating windfarms meet planning conditions. Sample projects include: Drehid Windfarm, Ballagh Windfarm, Coom Green Energy Park, Dercart windfarm, Croaghau Windfarm, Annagh Windfarm.

### • Transportation Projects 1994 -2011

Predicted operational and construction noise for a range of railway transport projects including highspeed rail and tram projects. Measurement of noise levels post construction at Docklands Light Railway extension. Measured noise from operational Docklands Light Railway Extension post completion to determine compliance. Measured internal noise of Intercity trains for the purpose of developing a specification for new rolling stock. Measured in-site performance of acoustic barriers on motorways in Ireland. Predicted noise from upgrade to N19 upgrade project during the route selection stage. Managed baseline noise survey prior to construction of Dublin Port Tunnel. Projects include Sunderland Metro, UK, East Coast Main Line Upgrade (UK), Docklands Light Railway Extension. Dublin Port Tunnel, N19 upgrade route selection stage

### • Building Acoustic Projects, 2002 - 2019

Provided acoustic advice on a range of building acoustic projects including residential, hotel, school, commercial and entertainment developments. Advised on sound insulation requirements for meeting building regulations. Advised on external building envelope design to meet suitable internal acoustic criteria. Predicted mechanical services noise to meet Local Authority noise criteria. Provided advice on meeting internal acoustic absorption requirements for a range of projects including community halls, churches, sports halls. Sample projects include Travelodge hotels, Chelsea Academy and Hammersmith Academy Schools.

### • Industrial Noise Assessments, 2011 - 2019

Predicted noise from a range of industrial sites including LNG facilities, dairy facilities, water works and power plants to advise on noise control measures to meet appropriate environmental legislation. Also predicted in-plant noise contours for purposes of meeting Noise at Work requirements. Sample projects include Thames Water projects, Ballyragget Glanbia site, Jazan Refinery, Saudi Arabia. Gas Networks Ireland – multiple sites, Compressed gas installation Whitegate, Kilkenny Water Projects, Thames Water Noise Impact Assessment, Boatlantis, Kerry.

## Key Information

### Qualifications

MEng. Acoustics and Vibration,  
Southampton University (ISVR), 1994

### Professional Memberships

Institute of Acoustics  
Engineers Ireland

### Employment History

#### 2019- Present

Fehily Timoney & Company  
Project Acoustic Engineer

#### 2017- 2018

Resonate Acoustics  
Acoustic Consultant

#### 2015- 2017

Soundsorba  
Sales Engineer

#### 2011- 2015

Kellogg Brown and Root  
Acoustic Engineer

#### 2011- 2011

Mott Mac Donald  
Acoustic Consultant

#### 2008- 2010

Applied Acoustic Design  
Acoustic Consultant

#### 2007- 2008

Hoare Lea Acoustics  
Acoustic Consultant

#### 2002- 2006

Sound Research laboratories  
Acoustic Consultant

#### 2001- 2002

RPS

Acoustic Consultant

#### 1998- 2001

Arup Acoustics  
Acoustic Engineer

#### 1996- 1998

Hotpoint Ltd  
Acoustic Engineer

#### 1993- 1996

British Rail Research  
Sponsored Student/Research  
Assistant



# Maureen Marsden

Project Acoustic Engineer



CONSULTANTS IN ENGINEERING,  
ENVIRONMENTAL SCIENCE  
& PLANNING

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- **Compliance Monitoring at EPA Licenced Facilities**

Measured and analysed boundary noise measurements at licenced waste facilities to determine compliance with noise conditions of the site licence.

- **Solar Farm Projects**

Predicted operational noise from proposed external equipment to determine compliance with EPA criteria, and make recommendations for mitigation, if required. Predicted construction noise from works associated with solar farm construction.

Sample projects include: Moortown Solar farm, Dunmurray Golf Course Solar Farm, Kilcurly Solar Farm.

- **Channel Tunnel Rail Link Project, 1996 - 1998**

Member of noise and vibration team providing noise and vibration advice. Predicted operational noise using 3-D model, during the detailed design phase of the project, determining noise barrier and bund heights to assist the project in meeting noise commitments. Liaised with design team/landscape architects to develop design incorporating bunding/noise barriers. Modelled construction noise associated with railhead operation and railway construction for the purpose of obtaining Section 61 consent for construction works.



# Dr. John Mahon

Senior Acoustic Engineer



CONSULTANTS IN ENGINEERING,  
ENVIRONMENTAL SCIENCE  
& PLANNING

## Profile

John is a Senior Acoustic Engineer with Fehily Timoney & Company. He has a PhD in Acoustics and Vibration and a BA BAI (Hons) degree in Mechanical Engineering from Trinity College Dublin. He is a member of Engineers Ireland and the Institute of Acoustics.

John has over 13 years' experience in acoustics & vibration and has an extensive knowledge and experience in the measurement, prediction and analysis in the field of acoustics and vibration including excellent knowledge of acoustics and vibration legislation, policy and standards at EU and Irish levels. John's primary experience is in environmental noise including measurement and prediction of industrial noise, wind farm noise and road noise. He has completed noise modelling, measurements and assessments for road schemes, wind farm developments, construction projects and industrial sites. He also has significant experience in assessing the acoustic performance of noise barriers and he sits on the Irish and European Committees for Standardization CEN/TC226/WG 6 (Road traffic noise reducing devices).

## Previous Experience Essentials For This Project

### Key Projects

- Noise Impact Assessments for Wind Farms**

Undertook noise impact assessments for wind farm projects including background noise assessments, noise predictions for construction and operational phases, compliance noise assessments and noise complaint investigations. He was also responsible for the preparation of environmental impact statements, technical reports and consultation with county councils.

Cordal Wind Farm  
Ballagh Wind Farm  
Mauricetown Wind Farm  
Acres Wind Farm  
Cordal Wind Farm

Meenwaun Wind Farm  
Drehid Wind Farm  
Castletownmoor Wind Farm  
Sigatoka Wind Farm  
Coolegrean Wind Farm

- Multiple Noise Impact Assessments**

He was involved in the submission of multiple noise impact assessments ranging from waste transfer facilities, seaweed processing plants to breweries and visitor centres. These noise impact assessments required attended and unattended baseline measurements as well as carrying operational and construction noise predictions and assessing the predicted noise levels against appropriate noise limits. In some instance mitigation measures were required in order meet noise limits.

- Offline Motorway Service Areas**

Noise lead on numerous planning applications for offline motorway service areas. Prepared noise and vibration impact assessments for construction and operational phases. Managed baseline monitoring, modelling of road traffic and industrial noise sources, preparation of technical reports and mitigation design.

- Aberdeen Western Peripheral Route (AWPR)**

Responsible for evaluating the noise impact of the amendment of the road alignment between the specimen design and conceptual design for the Fastlink section of the Aberdeen Western Peripheral Route. This involved noise modelling in accordance with CRTN of the Fastlink section of the AWPR and incorporating mitigation measures to satisfy Transport Scotland's design goals.

## Key Information

### Qualifications

PhD in Acoustics & Vibration,  
Trinity College Dublin, 2008

Vibration Analysis – ISO 18436-2  
Certification,  
Mobius Institute Board of  
Certification

BA BAI (Hons) Mechanical  
Engineering,  
Trinity College Dublin, 2004

### Professional Memberships

Member of Engineers Ireland

Member of Institute of Acoustics.

### Employment History

#### 2016- Present

Fehily Timoney & Company  
Senior Acoustic Consultant

#### 2008 – 2015

Infrasonic (Acoustics & Vibration  
Consultancy), Dublin  
Position

#### 2008 – 2013

Trinity College Dublin  
Position

### Employment History

Contributed to a Good Practice  
Guidance for the Treatment of Noise  
during the Planning of National Road  
Schemes. Appendix B – Good Practice  
Guide for Noise Barrier Design March  
2014

Multiple Academic Journal and  
Conference publications on Flow  
Induced Noise & Vibration, Noise  
Barriers and Noise Source  
Identification Techniques



## Dr. John Mahon

Senior Acoustic Engineer



CONSULTANTS IN ENGINEERING,  
ENVIRONMENTAL SCIENCE  
& PLANNING

- **M8 M73 M74 Motorway Improvements**

Responsible for checking the noise performance parameters of environmental noise barriers to be used in the motorway improvement scheme.

- **Noise Assessments at 42 Above Ground Installations, Gas Networks Ireland**

Managed a team who carried out environmental and occupational noise monitoring at 42 above ground installation sites. All sites were assessed against environmental noise limits and occupational noise criteria.

- **Compliance Noise Surveys**

Undertook noise monitoring and licence compliance work for EPA licensed landfill and waste facilities, greenfield waste sites and other commercial facilities including data analysis and preparation of technical reports. Carried out reviews of technical reports prepared as part of EPA licensed facilities requirements.

- **Remedial EIS – Lacken Stone**

Noise lead in the preparation of a remedial EIS for Lacken Stone Quarry. He was responsible for the preparation of noise and vibration aspects of the environmental impact statement, including measurement of baseline noise levels, measurement of operational noise levels and noise predictions.



# Tom Clayton

Senior Engineer



CONSULTANTS IN ENGINEERING,  
ENVIRONMENTAL SCIENCE  
& PLANNING

## Profile

Tom is a Chartered Engineer with a total of 10 years of experience within the geotechnical sector having developed excellent skills in analytical design (including finite element analysis), project and team management. Tom has significant experience designing deep foundations (including deep shafts) in the London area as well as the Middle East and various projects within the Irish market.

Tom also specialises in earthwork stabilisation and has worked in asset management and design consultancy roles for both highways and rail projects. More recently, Tom has worked closely with contractors on Design & Build projects throughout the UK and Ireland, including several wind farms and other infrastructure schemes. Tom currently leads the geotechnical and engineering geology team at Fehily Timoney and is responsible for the day-to-day running of the team and business development.

## Key Skills

Tom's experience includes:

- Geotechnical Engineering
- Geotechnical Design
- Site Inspections

## Previous Experience Essentials For This Project

- **Kilgallioch Wind Farm, Farrans, Jun 2017 - Present**  
Tom took over the Project Manager role for this award winning 96 turbine wind farm project in Scotland towards the end of the construction stage and was responsible for closing out as-built drawings. Tom also undertook the role of Geotechnical Design Lead for a replacement turbine foundation at one location and undertook the formation inspection during the construction of this turbine.
- **Derrysallagh Wind Farm Substitute Consent – Kilronan Wind Farm Ltd, Jun 2017 - Present**  
Tom was the Geotechnical / Geology Lead for the preparation of a Soils, Geology and Hydrogeology chapter for a retrospective EIS relating to the construction of an electrical cable route from Derrysallagh Wind Farm to a nearby electrical sub-station. As part of this assessment, Tom undertook a full desk study, site visit and provided an assessment of potential and cumulative impacts of the development (including with the wind farm development itself) and mitigation measures that could be implemented.
- **Gortfinbar Phase 2 – Moriarty Civil Engineering Contractors, September 2016 – May 2017**  
Tom acted as Category III checker for a piled turbine base foundation at this Northern Irish Wind Farm. Tom carried out an independent set of calculations and provided comments to the Designer. Tom also provided slope stability assessments for access road rock cuttings.
- **Teevurcher Wind Farm - Roadbridge, October 2016 – May 2017**  
Tom was the Lead Geotechnical Designer for this 5 turbine wind farm in Co. Meath and carried out full interpretation of the ground investigation and geotechnical design for all turbine foundations, hardstandings, access roads, substation foundations and met mast.

## Key Information

### Qualifications

MEng. (Distinction) Civil Engineering,  
University of Surrey, 2008

Chartered Engineer (CEng) 2015

### Professional Memberships

Institution of Civil Engineers  
(Member) 2015

### Employment History

#### 2016- Present

Fehily Timoney and Company  
Principal Geotechnical Engineer

#### 2008 – 2016

Aracadis UK (Formerly Hyder  
Consulting)  
Position

#### 2004 – 2008

Hyder Consulting (Undergraduate)  
Position



# Tom Clayton

Senior Engineer



CONSULTANTS IN ENGINEERING,  
ENVIRONMENTAL SCIENCE  
& PLANNING

Tom also provided construction stage support, formation inspections and verification of geotechnical testing for all of the above elements.

- **Meenwaun Wind Farm - Roadbridge, June 2016 – April 2017**

Tom was the Lead Geotechnical Designer for this 4 turbine wind farm in Co. Offaly and carried out full interpretation of the ground investigation and geotechnical design for all turbine foundations, hardstandings, access roads, substation foundations and met mast. Tom also provided construction stage support, formation inspections and verification of geotechnical testing for all of the above elements.

- **Proposed Wind Farm, Co. Kerry – Joam Consulting Ltd., October 2016 – December 2016**

Tom was the Project Manager for this peat stability assessment for a proposed wind farm in Co. Kerry. Tom oversaw the conducting of peat probing and field visits to the site and the preparation of a peat stability assessment in line with Scottish guidance on the preparation of Peat Stability Assessments. This project also involved the 3rd party check of a soil, geology and hydrogeology chapter prepared by others.

- **Raragh Wind Farm – Mainstream Renewables, July 2016 – December 2016**

Tom was the Geotechnical / Geology Lead for the preparation of a Soils, Geology and Hydrogeology chapter for an EIS relating to the construction of an electrical cable route from Raragh Wind Farm to Kingscourt, Co. Cavan. As part of this assessment, Tom undertook a full desk study, site visit and provided an assessment of potential and cumulative impacts of the development (including with the wind farm development itself) and mitigation measures that could be implemented.

- **Proposed Wind Farm, Co. Donegal – Element Power, October 2016 – December 2016**

Tom was the Geotechnical / Geology Lead for the preparation of a Peat Stability Assessment for an EIS relating to the construction of a Wind Farm in Co. Donegal which was a proposed as an 8 turbine site. Tom oversaw the conducting of peat probing and field visits to the site and the preparation of a peat stability assessment in line with Scottish guidance on the preparation of Peat Stability Assessments



# Emily Archer

## Project Geotechnical Engineer



CONSULTANTS IN ENGINEERING,  
ENVIRONMENTAL SCIENCE  
& PLANNING

### Profile

Emily is a Project Geotechnical Engineer at Fehily Timoney and Company working in the Infrastructure Department. She has a Bachelor of Science (BSc.) in Geology and a Masters (MSc.) in Applied Environmental Geology, both from University College Cork. Since starting with FT in 2018, she has worked on various geotechnical, environmental monitoring, contaminated land and EIA projects.

### Key Skills

- Investigation and remediation of contaminated lands and landfill sites
- Environmental Risk Assessment
- Ground Investigations
- Soil and groundwater remediation
- Engineering Geology
- Hydrogeological assessment

### Previous Experience Essentials For This Project

- **Ballinagree Wind Farm, Co. Cork**  
Emily was responsible for the Land, Soils and Geology chapter of the EIAR for this project and associated peat stability assessment. This involved a site walkover, peat probing and shear vane testing (where necessary) and the review of all online available data relevant to the site to complete a detailed desk study. Emily liaised with GI contractors and coordinated the trial pitting and boreholes at proposed borrow pit locations and turbine locations.
- **Lemanaghan Wind Farm, Co. Offaly**  
Emily logged and supervised trial pitting at proposed borrow pit and infrastructure locations and created detailed logs using HoleBase. This helped to inform the client on the high risk areas, areas of deep peat and areas where it is likely to get good material that can be re-used on site.
- **Proposed Wind Farms, Co. Mayo**  
Emily carried out a series of peat stability assessments across three proposed wind farm sites. This involved detailed site walkovers, peat probing, shear vane testing and trial pit supervision (in two of the sites). These assessments helped to inform the clients on the high risk areas and areas of deep peat.
- **Ballivor Wind Farm, Co. Meath/Westmeath**  
Emily logged and supervised trial pitting at proposed borrow pit locations and created detailed logs using HoleBase. Emily also carried out a detailed site walkover that involved peat probing, shear vane testing and a review of all online available data to make informed decisions on where the areas of high risk are located across the site.
- **MSD Brinny Oil Interceptor Options**  
Emily was involved in site investigation works carried out for a proposed oil interceptor located on site at MSD Brinny. Emily's role included a review of all available online data to assist with the selection of the ground investigation locations, the logging of the boreholes and trial pits, liaising with contractors, creation of the detailed logs using HoleBase and creating a conceptual ground model using the ground investigation information.

### Key Information

#### Qualifications

MSc. Applied Environmental  
Geology  
University College Cork, 2018

BSc. Geology  
University College Cork, 2017

#### Professional Memberships

Member of the Institute of  
Engineers Ireland

#### Employment History

##### July 2018- Present

Fehily Timoney & Company  
Geotechnical Engineer

##### May 2018 – July 2018

Fehily Timoney & Company  
Internship

##### August 2016

ESB International Cork  
Undergraduate Work Placement



# Emily Archer

## Project Geotechnical Engineer



CONSULTANTS IN ENGINEERING,  
ENVIRONMENTAL SCIENCE  
& PLANNING

- **Dunkettle Interchange**

Emily assisted with the day to day management and logging of intrusive site investigations on site, at the existing Dunkettle Roundabout. This role involved acting as the Designers Representative to ensure site investigations were undertaken in accordance with the Designers requirements and Euro Code 7. These works encompassed a range of site investigation techniques including cable percussion, rotary drilling, cone penetration testing and geophysical surveying. Ground conditions at the site were challenging due to extensive soft ground associated with buried channel features. As such she assisted with updating the ground model as information arrived from the investigations. This role also involved presenting progress reports and technical information to the project team to communicate ground risks encountered during the works. Emily also assisted with the drafting up of the Baseline Groundwater Monitoring Report. This involved reviewing and collecting the data from the groundwater monitoring wells on site and preparing a draft of the groundwater monitoring report. Emily was also involved on site as the Designer's Site Representative (DSR). This role involved supervising and monitoring the advanced earthworks that were taking place and approving the ground conditions. More recently and continuing in the DSR role, Emily has been involved in the second phase of intrusive site investigations on site.

- **Unregulated Historical Landfills, Kerry**

Emily was responsible for the preparation of a number Tier 2 and Tier 3 environmental risk assessment reports for 13 no. unregulated historic landfills located in Co. Kerry. Assessments and reports were prepared as per the EPA's Code of Practice on Environmental Risk Assessment for Unregulated Waste Management. Work included comprehensive desk study review of landfill sites and surrounding environment characteristics, review and interpretation of site investigation data, environmental monitoring results, historical reports and assessments, carrying out DQRAs and the development of Conceptual Site Models for each site. Emily was also involved in collecting the groundwater and surface water samples across these 13 no. sites.

- **Unregulated Historical Landfills, Tipperary**

Emily was responsible for the preparation of Tier 2 environmental risk assessment reports for 4 no. unregulated historic landfill sites located in Co. Tipperary. Assessments and reports were prepared as per the EPA's Code of Practice on Environmental Risk Assessment for Unregulated Waste Management. Work included comprehensive desk study review of landfill sites and surrounding environment characteristics, review and interpretation of site investigation data, environmental monitoring results, historical reports and assessments and the development of Conceptual Site Models for each site.

- **Coom Green Energy Park, Co. Cork**

Emily drafted up the Land, Soils and Geology chapter of the EIAR for this project. This involved a site walkover, peat probing and shear vane testing (where necessary) and the review of all online available data relevant to the site to complete a detailed desk study. Emily also logged and supervised trial pitting at proposed borrow pit locations and created detailed logs using HoleBase, that were input into the Land, Soils and Geology chapter. Emily was also involved in the supervision of the geophysical surveys and creation of conceptual ground models at each proposed turbine location.

- **Min Ryan Skate Park, Co. Wexford**

Emily was responsible for the ground investigation report for the proposed skate park location to determine the existing ground conditions in Min Ryan Park, Co. Wexford. Emily's role included a comprehensive desk study review of the site and surrounding environment characteristics, sampling and logging of trial pits, review and interpretation of site investigation data, creating detailed logs using HoleBase and the development of a Conceptual Site Model.

- **N22 Macroom – Ballyvourney Road, Access Track**

Emily was involved in the geotechnical design report for the N22 Ballyvourney to Macroom scheme access roads, hardstands and borrow pit. Emily's role included a comprehensive desk study review of the site and surrounding environment characteristics, sampling and logging of trial pits, review and interpretation of site investigation data, creating detailed logs using HoleBase, development of a geotechnical risk register and drafting up the geotechnical design report.

- **Renewable Gas Facility, Cúil na Móna, Portlaoise**

Emily's role included drafting up the Land, Soils and Geology and the Hydrogeology chapters of the EIAR for this project. This included a site walkover, peat probing, shear vane testing, logging a series of trial pits, creating detailed logs and the review of all online available data relevant to the site to complete a detailed desk study.

- **Dernacart Wind Farm, Co. Laois**

Emily drafted up the Land, Soils and Geology chapter and the peat stability report for the EIAR for this project. This involved a site walkover to carry out peat probing and shear vane testing and the review of all online available data relevant to the site to complete a detailed desk study.



# Kristian Divjak

## Civil Design Engineer



CONSULTANTS IN ENGINEERING,  
ENVIRONMENTAL SCIENCE  
& PLANNING

### Profile

Kristian is a Civil Design Engineer with Fehily Timoney and Company. He works as part of FT's Energy Team. After he graduated as the Best Student of his Generation, he continued his career in Hydroconsult Design Ltd. where he worked on various water management projects. He was responsible for hydraulic modelling. Kristian also worked on designing open channels, bridge culverts and river basin retentions.

Since joining FT, Kristian has worked on numerous Environmental Impact Assessment reports where his duty was to address impacts of development on hydrology and water quality and to implement mitigation measures. Kristian was responsible for drainage design and flood risk assessment.

### Key Skills

- Civil Infrastructure
- Environmental Impact Assessment
- Flood Risk Assessment
- Open Channel and Pipeline Hydraulics
- Hydraulic Modelling

### Previous Experience

#### Fehily Timoney and Company, Cork – 2019 - Present

- **Dromalivaun Solar Farm (2020)**  
Responsible for drainage design of the solar farm.
- **Fairfield Road Residential Planning and Design (2020-present)**  
Kristian was responsible storm, foul and watermain design of the residential development. The development consists of 49 houses and apartments.
- **Derryville Anaerobic Digestor (2020)**  
Kristian was responsible for preparation of the hydrology and water quality chapter of the environmental impact assessment report. He had undertaken the site investigation to identify hydrological constraints. He determined increase in runoff due to the development and impacts of the development on hydrology and water quality. He had to propose mitigation measure for construction, operation and decommissioning stage of the development. He was responsible for flood risk assessment and drainage design.
- **Dannistown Solar Farm (2020) & Oola Solar Farm Flood Risk Assessment (2020)**  
Responsible for drainage design for the solar farm.
- **Navan & Oola Solar Farm Flood Risk Assessment (2020)**  
Kristian was responsible to develop flood depth maps for Flood Zone A and Flood Zone B. It was required to estimate the flood depth to determine the height of the solar panels.

### Key Information

#### Qualifications

- Master (Summa Cum Laude) in Civil Engineering,  
University of Zagreb, 2015
- Bachelor of Engineering (Hons) in Civil Engineering,  
University of Zagreb, 2013
- Bachelor of Engineering (Hons) in Civil Engineering,  
Polytechnic of Zagreb, 2012

#### Professional Memberships

BEng ME MIEI

#### Employment History

##### 2019- Present

Fehily Timoney & Company, Cork

##### 2016 – 2018

Hydroconsult Design Ltd., Croatia

##### 2015 – 2016

Hydroengineering Ltd., Croatia



# Kristian Divjak

## Civil Design Engineer



CONSULTANTS IN ENGINEERING,  
ENVIRONMENTAL SCIENCE  
& PLANNING

- **Oil Separator at MSB Brinny (2020-present)**  
Kristian was responsible for drainage design at MSB Brinny Site. An existing oil separator was replaced by two NSBE125 Bypass Oil Separators.
- **Cork County Bridge Rehabilitation (2019-2020)**  
Kristian was responsible for high-level hydraulic analysis for nine bridges located throughout Cork County. It was determined that the Lisheenleigh Bridge needed to be replaced. Kristian was responsible for hydraulic modelling, technical report writing and filling out a Section 50 Application form.
- **Coom Green Energy Park (2019 – present)**  
Kristian was responsible for preparation of the hydrology and water quality chapter of the environmental impact assessment report. He had undertaken the site investigation to identify hydrological constraints. He determined increase in runoff due to the development and impacts of the development on hydrology and water quality. He had to propose mitigation measure for construction, operation and decommissioning stage of the development. He was responsible for flood risk assessment and drainage design. Drainage design has been carried out in In-house Excel spreadsheet and Pipe Flow Advisor.
- **Dernacart Wind Farm (2019)**  
Kristian was responsible for preparation of the hydrology and water quality chapter of the environmental impact assessment report. He had undertaken the site investigation to identify hydrological constraints. He determined increase in runoff due to the development and impacts of the development on hydrology and water quality. He had to propose mitigation measure for construction, operation and decommissioning stage of the development. He was responsible for flood risk assessment and drainage design. Drainage design has been carried out in In-house, Excel spreadsheet and Pipe Flow Advisor.
- **Croaghaun Wind Farm (2019-present)**  
Kristian was responsible for preparation of the hydrology and water quality chapter of the environmental impact assessment report. He had undertaken the site investigation to identify hydrological constraints. He determined increase in runoff due to the development and impacts of the development on hydrology and water quality. He had to propose mitigation measure for construction, operation and decommissioning stage of the development. He was responsible for flood risk assessment and drainage design. Drainage design has been carried out in In-house Excel spreadsheet and Pipe Flow Advisor.
- **Boolard Wind Farm Detailed Design (2019)**  
Responsible for drainage design for the Boolard Wind Farm.
- **Killcurly Solar Farm (2019-2020)**  
Kristian was responsible for preparation of the hydrology and water quality chapter of the environmental impact assessment report. He had undertaken the site investigation to identify hydrological constraints. He determined increase in runoff due to the development and impacts of the development on hydrology and water quality. He had to propose mitigation measure for construction, operation and decommissioning stage of the development. He was responsible for flood risk assessment and drainage design. Drainage design has been carried out in In-house Excel spreadsheet and Pipe Flow Advisor.
- **Croom Residential Development (2019 – present)**  
Kristian was responsible for drainage design for Croom residential development. Croom residential development consists of 11 apartments. Kristian designed storm, foul and water main network. Storm water and foul network were designed with Flow software developed by Causeway. Water main was designed with EPANET software.
- **Feasibility Report Listry Bridge (2019)**  
Kristian was responsible to hydraulic and hydrology assessment of the Bridge Listry. It was required to determine the flow conveyance of the bridge and soffit level.
- **Section 5 Application Grid Connection Millvale, Co. Wicklow**  
Responsible for Section 5 report.



# Kristian Divjak

Civil Design Engineer



CONSULTANTS IN ENGINEERING,  
ENVIRONMENTAL SCIENCE  
& PLANNING

- **Section 5 Application Grid Connection Furryhill, Co. Kildare**  
Responsible for Section 5 report.

## Hydroconsult Design Ltd., Croatia – 2016 – 2018 – Civil Engineer Consultant

- **Study Documentation for Preparing Flood Control Projects for the Zagrebačko Prisavlje Basin**

Kristian was responsible for technical report writing, hydraulic modelling, estimating costs of flooding for extreme storm events and preparation of flood risk and flood hazard mapping. On this project worked a Consortium of three companies. Due to catchment area and complexity of the project, it was divided into three parts. For assigned part, each company had to provide a description of the current state, hydrology and hydraulic model, estimate costs of fluvial flooding for various storm events, flood risk and flood hazard mapping and propose flood risk mitigation measures:

Flood extents have been model for approximately 27km of open channel in HEC-RAS for various extreme flood events. Flood extents were imported into ArcGIS and overlaid with existing infrastructure to estimate costs of flooding. Based on the impact due to flooding, appropriate mitigation measures have been proposed.

- **Planning Permission for Flood Mitigation Measures for Town Pakrac (2018)**

Kristian was responsible for technical report writing, drainage design for approximately 3.2km of open channel, culvert design and hydraulic modelling of the River Pakra to determine water elevation for various extreme storm events.

Drainage design of open channels was carried out in Civil 3D. Culverts were designed in In-house software. Hydraulic river modelling was carried out in HEC-RAS.

- **Planning Permission for River Regulation of the Bednja River (2018)**

Kristian was responsible for technical report writing and hydraulic river modelling for approximately 9.7 km of the Bednja River to determine required elevation of embankments for extreme storm events.

The hydraulic model of the Bednja River was developed in HEC-RAS.

- **Planning Permission for an Earthen Retention at Catchment Bahunsko (2017)**

Kristian was responsible for technical report writing and design of an earthen retention at catchment Bahunsko. He was responsible to determine the flood extents due to construction of a dam and design of an outfall and emergency spillway.

Extreme storm events were modelled in HEC-HMS based on recorded historic rainfall data. The flood extents were determined in ArcGIS for various water elevations. An outfall and emergency spillway were designed in In-house Excel spreadsheet.



# Eoghan O'Sullivan

## Air Quality



CONSULTANTS IN ENGINEERING,  
ENVIRONMENTAL SCIENCE  
& PLANNING

### Profile

Eoghan is a Graduate Engineer at Fehily Timoney and company working in the Energy and Planning department. He recently completed his four year BE degree in Civil Structural and Environmental Engineering in UCC, receiving first class honours.

Eoghan is an active member of his local GAA club, St. Finbarrs and he also has a keen interest in travel and photography. He has great communication skills and works very well with a team.

### Key Skills

Eoghan's key skills are the following:

- EIA
- Feasibility Studies
- Arcmap

### Previous Experience Essentials for this Project

- **Hewitts Mills Residential, Cork City**  
Undertook a quality audit for a 200 apartment residential development in the northern suburbs of Cork City. The audit evaluated the accessibility of the development for pedestrians, cyclists, motorists and mobility impaired users and it included a site visit and the review of architects design drawings.
- **Milltown Solar Farm, Meath**  
Produced a technical note for a solar farm planning application. The note included an assessment of a masonry arch bridge and an evaluation of the surrounding road network for the haul route.
- **Croaghaun Wind Farm, Carlow**  
Produced the CEMP and Non-technical summary as part of the EIAR for this proposed wind farm. Also evaluated the proposed haul route as part of the 1<sup>st</sup> party appeal.
- **Dunkettle Interchange Upgrade Scheme, Cork**  
Undertook Environmental monitoring (noise, vibration and dust) for a major infrastructure project including set up, installation, troubleshooting and online monitoring.
- **Mohill Solar Farm, Leitrim**  
Produced a stage 1 feasibility report, including GIS mapping, for a potential solar farm in Co. Leitrim.
- **Annagh Wind Farm, Cork**  
Prepared two chapters of the EIAR: Chapter 6 – Air and Climate, Chapter 16 Telecommunications and Aviation for a 6-turbine wind farm application in North County Cork
- **Middleton House Solar Farm Extension, Meath**  
Contributed to a stage 2 feasibility report for an extension to an already permitted solar farm. Collaborated with in house geologist, planner and ecologist to coordinate site visits and compile the report.

### Key Information

#### Qualifications

##### 2016-2020:

BE in Civil Structural and Environmental Engineering  
University College Cork (UCC)  
Result **1:1**

#### Employment History

##### 2020 – Present

Fehily Timoney & Company  
Graduate Engineer

##### May 2021

Fehily Timoney & Company  
GIS Analyst



# Eoghan O'Sullivan

Air Quality



CONSULTANTS IN ENGINEERING,  
ENVIRONMENTAL SCIENCE  
& PLANNING

- **Ballinagree Wind Farm, Cork**

Produced the CEMP and Air and Climate Chapter for the EIAR the planning application. Conducted a site access survey to determine suitable entrances to the site that conform the TII requirements for direct accesses.

- **Goulacullin Constructability Report**

Produced a report that determined the constructability of a proposed wind farm in Co. Cork. The report looked at the constraints associated with the site, the buildability of the layout provided by the client and proposed a more buildable layout.

- **Noise Monitoring at Various GNI Sites**

Undertook noise surveys at GNI AGI sites across Cork. Measurements were taken at day, evening and night time to establish baseline noise conditions for the sites.

- **Coom Green Energy Park**

Produced the CEMP and Schedule of Mitigation Measures for SID wind farm application. Erected and monitored site notices for 7 weeks.

- **Coumragcappul Wind Farm**

Prepared two chapters of the EIAR: Chapter 6 – Air and Climate, Chapter 16 Telecommunications and Aviation for an 11-turbine wind farm application in North County Waterford. Undertook a planning search for the site to determine nearby developments.



# Donna O'Halloran

## Project Scientist



CONSULTANTS IN ENGINEERING,  
ENVIRONMENTAL SCIENCE  
& PLANNING

### Profile

Donna O'Halloran is a Project Environmental Scientist with four years' experience and works on energy, waste and urban planning related projects. Donna has a comprehensive knowledge of Air and Climate Change impact appraisal as part of Planning and Environment Reports, Environmental Impact Assessment Reports (EIAR) as well as a comprehensive knowledge of air and climate related international and national legislation and international agreements. Donna's key skills include traffic emission modelling (DMRB) and carbon calculation modelling. Donna also has experience and skills in ecology.

Donna holds two first class honors Masters of Science; one in Environmental Resource Management from University College Dublin, Ireland and the other in ecological assessment from National University of Ireland, University College Cork. Donna has a background in horticulture and landscape architecture.

### Key Skills and Projects

- **Air and Climate Change Impact Appraisal for Wind Farm EIARs:**  
Air and Climate Change Impact Appraisal as part of EIAR is assessed according to the NRA's (now TII) '*Assessment Criteria for the impact of dust emissions from construction activities with standard mitigation*'. Carbon balance of windfarms is calculated using the Scottish Windfarm Carbon Calculating tool. Traffic emissions are calculated where the DMRB (UK Highways Agency) threshold is met. And the UK Highways Agency's tool is used.
  - Slaghbooly Wind Farm, Co. Clare
  - Castletownmoor Wind Farm, Co. Meath
  - Ballymanus Wind Farm, Co. Wicklow
  - Ballymanus Wind Farm, Co. Wicklow
  - Raragh Wind Farm underground 20KV Grid Connection, Co. Cavan & Co. Meath
  - Windfarm in Co Cork, (preplanning stage)
- **Air and Climate Change Impact Appraisal for Non Wind Farm projects EIAR or Environmental Reports for planning.**  
Traffic emission (DMRB) modelling has been carried out where thresholds have been met:
  - Proposed Waste Transfer and Processing Facility, Co Laois
  - Waste Soil Recovery Facility Kilquade, Co Wicklow
  - Millennium Park Landfill Extension, Co. Dublin
  - Overhead Line, midlands
  - Solar Farm Co. Wexford
  - Soil Backfill Facility, Co. Limerick
  - Battery Storage Facility, Co. Cork
  - Kilpaddoge Peaker Plant, Co. Kerry
  - Mishells Battery Storage, Co. Cork
  - Barnahely Battery Storage, Co Cork
  - Soils Recovery Facility and Eco Park, Co. Wicklow
  - Glenbeigh Greenway, Co. Kerry

### Key Information

#### Qualifications

- MSc. Ecological Assessment (First Class Honors),  
University College Cork, 2014
- MSc. (Agr.) Environmental Resource Management (First Class Hons)  
University College Dublin, 2007
- BSc. (Agr.) Landscape Horticulture (Hons),  
University College Dublin, 2006
- National Diploma in Horticulture,  
National Botanic Gardens/ITB, Dublin  
2004

#### Employment History

##### 2015- Present

Fehily Timoney & Company  
Project Ecologist

##### 2011 – 2014

Heronswood Childcare Centre, Cork  
Assistant Supervisor

##### 2010 – 2011

Little Hands Childcare and Early Learning Centre, Cork  
Assistant

##### 2007 – 2008

Mitchell & Associates, Cork  
Landscape Architect

##### 2006

Brady Shipman Martin, Cork  
Landscape Architect Assistant

##### 2001 – 2004

National Botanic Gardens, Dublin  
Student Gardener

##### 2001 – 2003

Carewswood Garden Centre, Cork  
Sales Assistant



# David Moore

Principal Planner



CONSULTANTS IN ENGINEERING,  
ENVIRONMENTAL SCIENCE  
& PLANNING

## Profile

David is a Principal Planner with Fehily Timoney and Company and is responsible for planning and environmental inputs to large scale project activity within the company.

David has over 20 years' experience in the planning and development sector within private, public and academic contexts. He has gained extensive project management experience in complex, multi-party projects at national and international scales.

David holds honours degrees at Bachelor and Masters level in Geography, a Masters degree in Business Administration and Master of Science Degree in Spatial Planning. In 2017 David was awarded a Higher Diploma in Planning and Environmental Law by the Honorable Society of King's Inns which provides him with a strong understanding of current planning legislation and court rulings.

David's planning experience embraces all aspects of development control, strategic and regional planning, together with co-ordination of multi-disciplinary teams. David has provided strategic planning advice on large scale renewable energy, infrastructure, residential, commercial and retail development.

He has provided expertise in development plan preparation, development plan submissions and expert witness services for oral hearings, arbitration and court cases. David is an experienced Project Manager and has EIAR Coordinator to energy, aviation and residential projects. David has acted on behalf of project promoters and other interested stakeholders and has led a number of public engagement programmes. Over his career David has also acted as lead for IT, Data Management and GIS activity into planning and resource management projects.

## Key Skills

David has experience across a broad range of planning expertise embracing:

- Experience in planning and development practice for renewable energy, residential, commercial and infrastructure, sectors.
- Specialist expertise in solar PV planning and layout design.
- Management of large-scale planning applications and consent process including strategic infrastructure development, substitute consent and 'Part 8' applications.
- Preparation of planning and development strategies including feasibility studies, risk management strategies, due diligence and compliance reports.
- Coordination of multi-disciplinary teams for large scale development projects including design management, Environmental Impact Assessment Reports (EIAR) and Appropriate Assessment (AA).
- Preparation of planning reports, planning appeals, development plan submissions, 'section 5' requests and referrals, and legal submissions/affidavits.
- Specialist understanding of planning compliance and enforcement issues.
- Experience in oral hearings, CPO arbitration hearings, court hearings and presentations to stakeholders, local authority elected members and officials.
- Technical skills in urban design, rural development, development plan preparation, SEA, EIA and AA, retail impact, landscape and visual assessment, GIS and data management, renewable energy technology, demographics and socio-economic analysis.

## Key Information

### Qualifications

Higher Diploma in Planning and Environmental Law,  
The Honorable Society of King's Inns,  
2017

MSc. Spatial Planning, Dublin Institute of Technology, 2006

Masters in Business Administration,  
Open University, UK, 2002

Masters of Arts (Geography with GIS),  
University College Dublin 1991

Bachelor of Arts (Archaeology & Geography) 1988

### Professional Memberships

Irish Planning Institute (Corporate Member, Elected Chairman of the Cork IPI Branch, 2011/12)

MBA Association of Ireland (Member of Southern Branch Committee 2011)

IRLOGI (Irish GIS and Geo-data Umbrella organisation member since 1996)

### Employment History

#### 2013- Present

Fehily Timoney & Company

#### 2003 – 2013

Spatial Planning Solutions Ltd.

#### 2001 – 2003

McCutcheon Hogan, Planning Consultants, Cork

#### 1998 – 2001

EUROGISE Project, National University of Ireland, Galway

#### 1996 – 1998

CSA Computing, Dundrum Business Park, Dundrum

#### 1992 – 1996

Kevin Cullen & Company (NGIS), Environmental Consultants, Dublin



**David Moore**  
Principal Planner



CONSULTANTS IN ENGINEERING,  
ENVIRONMENTAL SCIENCE  
& PLANNING

## Previous Experience Essentials

- **Wind Energy:**

Compliance and statutory regulation requirements for turbine provisions at including EIAR and AA (Stage 1) coordination Barranafaddock Wind Farm, Co. Waterford for StatKraft (2019). EIAR reviewer and public consultant attendance for Coom Green Energy Park, Co. Cork (Brookfield Renewable 2019). Planning advice and strategy preparation for re-powering of existing wind energy projects (Blackrock 2019). Compliance consents for turbine regularisation at Coomacheo, Wind Farm Co. Cork & Co. Kerry for SSE and Lagan Construction (2015), Planning advice, Emlagh Wind Farm, Co. Meath Oral Hearing (Element Power 2014 – 2015); Planning advisor Maighne Wind Farm (47 no. Turbines) (Element Power 2015); Compliance advice on landscape and residential amenity impacts at Knockacummer Wind Farm, Co. Cork (Private client).

- **Solar Energy:**

Coordination, design review, and preparation of planning reports, EIA Screening and planning applications for over 15 no. utility scale solar energy developments in counties Cork, Clare, Kildare, Longford, Louth, Westmeath and Wexford; preparation of over 45 no. Planning Feasibility for solar projects nationally. Preparation of Further Information Requests and first party Appeals for solar projects. Submissions to the ISEA Solar Energy Guidelines. Design activity included specification of mitigation measures, compliance with road building and development standards, position of key site infrastructure and site access provisions. Leading of public consultation programme for a number of solar planning applications.

- **Marine Infrastructure:**

Submission of planning applications for 9 no. locations associated with landing and passenger infrastructure of a fast-ferry passenger service in Cork Harbour for Harbour Cat Ferries Ltd. This included preliminary site assessment for at 28 sites around Cork Harbour, and engagement with Department of Marine on Foreshore Licenses (2008 – 2009).

- **Strategic Environmental Assessment:**

Review of OPW Flood Risk Management Plans – review of analysis and policy input (2018). Strategic Environmental Assessment for Draft Buncrana and Environs Development Plan (2007) Donegal County Council, landscape and zoning policy analysis for assessment of the draft Development Plan, in association with Brendan McGrath & Associates, (2007)

- **Oral Hearings/Expert Witness:**

- Expert Witness on retail catchment areas in O’Leary v’s Volkswagen Group Ireland Ltd. High Court 2016 (Ref: 4143P [2016] IEHC 773)
- Oral Hearing Witness – Planning advisor at Emlagh Wind Energy Project Strategic Infrastructure Development Oral Hearing (Element Power, 2015).
- Legal Planning Appraisal - Examination of statutory planning requirements for pre-2000 legal planning case for Arthur Cox & Co. (Private client., 2014).
- Expert witness for appellant in ABP Gateway Bridges CPO by Cork City Council (for Harbour CAT Ferries 2009).
- Expert witness - High Court: Cork County Council, Froggatt & Ord V Slattery Quarry Ltd. S.160 proceedings (Ref. 2007 103 MCA & 5661 P) (for applicant Froggatt & Ors.) (2007).
- Oral Hearing: Bottlehill Landfill, Co. Cork on behalf for appellant (Bottlehill Community Association 2002).

- **CPO and Arbitration:**

- Expert witness for claimant - Justin & Catherine McCarthy V OPW (2012).
- Expert witness for claimant - Timothy Harrington V Cork County Council (2014).

- **International Experience:**

- Lead Data Manager and input to the landuse and master plan of the Jeddah Environmental Assessment and Jeddah Social and Environmental Master Plan for the Presidency of Meteorology and Environment, Saudi Arabia in Partnership. This project was undertaken in association with Ramboll. (2014).
- GIS management to a Model Based Waste Management Plan for Abu Dhabi Emirate on behalf of the Centre for Waste Management, Abu Dhabi in association with Ernst & Young (2015).

**Jim Singleton****PRINCIPAL TECHNICAL CONSULTANT**

Jim is a Principal Technical Consultant whose experience within acoustics consultancy covers a range of sectors including environmental noise, occupational noise and architectural acoustics, with particular expertise in the energy and industrial sectors.

Jim is the Team Manager of the Site Services team with a specific focus on delivering noise and shadow flicker services for windfarm developments as well as leading our non-windfarm noise assessment services.

**KEY EXPERIENCE**

- Noise Propagation Modelling
- Industrial Noise Assessments and compliance monitoring
- PPC Permitting
- Due Diligence
- Construction Noise Assessments
- Planning applications for commercial, industrial and residential
- Quarrying and blast monitoring (noise & vibration)
- Mixed-use Master Planning
- ETSU-R-97 Noise Assessments
- Shadow Flicker Assessments
- BREEAM Assessments
- Room acoustics modelling

**EDUCATION AND PROFESSIONAL STATUS**

Diploma in Acoustics & Noise Control, Institute of Acoustics (2008)

BSc. (Hons) Music Technology, First Class (2001)

Member of the Institute of Acoustics (MIOA)

Member of the Audio Engineering Society (AES)

**EXPERIENCE RECORD**

**2014 - Current      TNEI Services Ltd**  
**Principal Technical Consultant & Team Manager**

**Energy Projects**

Jim regularly works on energy projects covering a range of generation types from conventional energy through to renewables, storage and electrical infrastructure. Projects of note include:

- Rosecote 50MW battery storage facility
- Capacity Mechanism Schemes, numerous (1MW – 40+MW)
- NorthConnect (Norway / Scotland Interconnector)
- Galloper 336MW offshore wind farm onshore substation
- Aberdeen 92MW offshore wind farm onshore substation
- New Gorbals District Heating Scheme
- Wormit Solar Farm



**Position in Firm:**  
Principal Technical  
Consultant

**Discipline:**  
Acoustics

**Experience:**  
12 years (consultancy)  
6 years (lecturing)

**Key Qualifications:**  
Diploma in Acoustics  
& Noise Control (IOA)

BSc (Hons) Music  
Technology

**Professional  
Memberships:**

MIOA  
AES

### **Marine, Near-shore and Ports**

Jim has worked both locally and internationally on marine, near shore and port projects and provided a wide range of consultancy services to this sector. Examples include;

- Umm Qasr, Iraq (ESIA studies and chapter for extension of container port and RORO services)
- Port of Cromarty Firth, Invergordon (PPC application for oil & gas decommissioning and offshore asset recovery)
- Lochmaddy/Tarbert (Harbour expansions to facilitate larger ferry on Isle of Harris and North Uist.
- Johan Castberg FPSO Module (operational noise predictions for floating production storage and offloading vessel )
- Aberdeen Offshore Windfarm landfall, Blackdog (Predictions & measurements for cable winching from offshore to landfall).

### **Industrial Projects**

Jim has significant experience of industrial noise assessments including PPC permit applications/variations, BS4142 assessments for planning applications and noise control and management for compliance and/or complaints. Recent projects of note include;

- Confidential Site, Proposed Open Cast Coal Mine (EIA noise assessment)
- Drakelow Energy from Waste plant (EIA and PPC application)
- Great Coates Energy from Waste plant (EIA)
- Binn Farm SRF Processing Facility (PPC application and compliance)
- SGL Carbon Fibers (PPC Permit compliance monitoring)
- BSW Timber Newbridge (Planning applications)
- Port of Cromarty Firth, Invergordon (PPC applications and construction noise assessments)

### **Residential Developments**

Jim has worked on a number of residential developments assessing site suitability, providing planning application noise impact assessments, monitoring for compliance with planning conditions and specification of building facades, barriers and other noise control measures.

Recent projects of note include;

- Gosforth Business Park – Road traffic and industrial noise studies
- Newcastle Great Park Cell A – Road traffic and aircraft noise assessments
- Newcastle Great Park Cell D – Road traffic noise assessments
- Newcastle Great Park Cell G – Compliance monitoring
- Royal Quays, North Shields – Planning application
- Cannon Street, Hull – Planning application

**2011 – 2014            Atmos Consulting Ltd, Edinburgh  
Senior Consultant (Acoustics & Noise)**

Whilst at Atmos, Jim authored the ES noise chapters of several Section 36 and large scale wind farms as well as numerous medium scale and FIT scheme developments. Other renewable energy projects included a number of biomass plants, wood fuel pellet production facilities and run-of-river hydro schemes.

Jim's experience of noise assessments outside of renewable energy covered a wide range of sectors. Some interesting projects of note include:

- Hovercraft crossing feasibility studies (Kirkcaldy to Edinburgh)
- Go-Kart Track, Aviemore – Impact assessment for planning application within a National Park;
- St Andrews International Golf Club – Impact assessment for planning application;
- Mixed use development, Muir of Ord – Master planning for outline planning;
- Housing development, Llandrindod wells – Site suitability assessment;

**2007 – 2011            BMT Cordah Ltd, Glasgow & New Acoustics, Glasgow**

Prior to concentrating on the energy and industrial sectors Jim worked on a significant amount of architectural acoustics projects as well as environmental noise. Architectural acoustics work has included room design, sound insulation testing, mechanical ventilation calculations, facade specifications and internal partition specification.

Interesting projects of note include;

- Acoustic design for the conversion of a Victorian warehouse space into the Kvadrat Showroom (London), as featured in Wallpaper magazine, working with Peter Saville and David Adjaye.
- Specification of internal partitions and acoustic design of specialist spaces for University of West Scotland, Ayr Campus (including recording & TV studios, radio studios, lecture theatres, performance spaces and atria).
- Acoustic design for the restoration of Triskel Christchurch, Cork, into a live music venue. Now renowned in Ireland for its acoustics.
- Mechanical ventilation calculations and design input for the Briggait, Glasgow. Conversion of former fish market into artist studios and exhibition spaces. The Briggait
- ETSU-R-97 noise assessment for the Viking Wind Farm, Shetland;
- PPC planning application and ES noise chapter for Northern Ireland's first large scale 'wood to energy' CHP.

**Mark Tideswell****TECHNICAL CONSULTANT**

Mark is a Technical Consultant with over six years experience working in the Environmental Consultancy sector. Mark's work focuses mainly on the technical aspects of renewable energy developments including site finding, GIS mapping services, shadow flicker and various types of noise assessments.

**KEY EXPERIENCE**

- Noise monitoring and assessment (ETSU-R-97, BS4142, BS5228)
- Noise propagation modelling
- Shadow Flicker assessment
- GIS site finding and feasibility for energy developments
- Constraints mapping
- Technical drawing and figure production

**EDUCATION AND PROFESSIONAL STATUS**

- BSc (Hons) Music Technology, Leeds Metropolitan University (2011)
- IOA Diploma in Acoustics and Noise Control, Leeds Metropolitan University (2015)
- Associate Member of the Institute of Acoustics (AMIOA)

**EXPERIENCE RECORD****2013 – Present      TNEI Services Ltd****Noise Assessment**

Mark has undertaken noise assessments and provided support for a range of different development types, including: Wind Farms, energy generation and storage, Industrial and Residential schemes.

Projects of note include:

- Wind turbine compliance noise assessment (project confidential) on South Uist for Comhairle Nan Eilean Siar.
- Spaldington Wind Farm: Noise level monitoring and reporting for wind farm construction activities, including piling.
- Lindhurst Wind Farm: Wind farm noise compliance monitoring and assessment.
- Rumer Hill Gas Peaking Plant: Baseline noise monitoring and BS4142 assessment for the operation of externally located gas powered engine/generator sets.
- Newcastle Great Park: Production of noise propagation models and noise mapping of a large housing development in Newcastle in order to assess the potential impacts of road and aircraft noise.

**Position in Firm:**  
Technical Consultant**Experience:**  
6 years**Key Qualifications:**  
- BSc (Hons) Music  
Technology  
- Diploma in Acoustics  
& Noise Control (IOA)**Professional  
Memberships:**  
- AMIOA

**GIS and Mapping Services**

Mark has provided GIS and CAD support for numerous projects at TNEI, including renewable energy, power systems, and residential and industrial developments. Duties typically include data management and analysis, site finding and feasibility assessments, site design, production of technical plans and figures, and general mapping services for the duration of a project.

Projects of note include:

- WPD Grid Study: Mapped the WPD electricity distribution grid network across the south-west of England.
- ZNSHINE SOLAR Site Search: Feasibility assessment to identify potential sites suitable for solar development in England through the use of geographic data.
- Bankend Rig Wind Farm Extension: Provided GIS and mapping support for the planning application of the consented Bankend Rig Wind Farm Extension, including the production of supporting figures, plans and technical drawings.
- Hydrogen fuel cell development in Orkney: Production of GIS models and figures.
- STOR site in Lancashire: Produced GIS models and figures for three gas turbine engines.
- Feasibility studies for large scale STOR sites for up to 50MWe of generators/engines.

# **Tony Cummins BA MA**

## **Senior Archaeologist & EIA Consultant**

### **Professional Qualifications**

B.A. Degree (Archaeology) UCC, 1992  
M.A. Degree (Archaeology), UCC, 1994  
Licence-eligible Archaeologist since 1998

### **Career Profile**

<i>2009 to present:</i>	<b>Senior Archaeologist</b> , John Cronin & Associates
<i>2009</i>	<b>Consultant researcher</b> , INSTAR Research Project, Archaeology Dept., UCC
<i>2003-2009</i>	<b>Project Manager</b> , Sheila Lane & Associates
<i>2003</i>	<b>Project Manager</b> , Eachtra Archaeological Projects
<i>1999-2002</i>	<b>Senior Archaeologist</b> , Aegis Archaeology
<i>1998-1999</i>	<b>Project Manager</b> , Archaeological Services Unit, Archaeology Dept. UCC
<i>1991-1998</i>	Member of various archaeological excavation teams

### **Relevant Experience**

Tony has been a Senior Archaeologist with John Cronin & Associates since 2009 and has over twenty-five years continuous experience as a professional archaeologist. He has been a licence-eligible archaeologist since 1998 and has directed numerous excavations in Ireland as well as participating in archaeological projects in Britain and Lebanon. Tony also has gained a number of years' experience as the archaeological project manager overseeing archaeological works on a number of large-scale infrastructure projects, including the Limerick Southern Ring Road, Waterford City Bypass, Killaloe Bypass and Clashavoon-Dunmanway 110kV transmission circuit. This allowed him to gain extensive experience in the preparation of impact assessments, directing excavations, co-ordinating research studies and compiling reports for submission to state agencies and planning authorities.

Tony has extensive experience in preparing environmental impact assessments for numerous wind farm projects which included co-ordinating with other relevant consultants, including project design teams and LVA specialists. Examples of some of these projects include: Derrybrien rEIAR (Co. Galway), Glentane and Knockeenboy (Co. Cork), Shragh (Co. Clare), Bunmahon (Co. Waterford), Carrigdown (Co. Tipperary) and Tullynamoyle (Co. Leitrim).

# **John Cronin** BA MRUP MUBC Dip. Geol MIAI **Principal Consultant & Architectural Heritage Specialist**

## **Professional Qualifications**

Master of Urban & Building Conservation, School of Architecture, University College Dublin, 1999

Diploma in Geology, University College Cork, 1996

Master of Regional & Urban Planning, University College Dublin, 1993

Bachelor of Arts (Honours) - Archaeology & Geography, University College Cork, 1991

Member of Institute of Archaeologists of Ireland

## **Career Profile**

<i>2000 to date</i>	<b>Managing Director and Principal Consultant</b> , John Cronin & Associates
<i>1999 – 2000</i>	<b>Executive Planner (Conservation)</b> , Donegal County Council
<i>1998 – 1999</i>	<b>Conservation Officer</b> , Cork County Council
<i>1995 – 1998</i>	<b>Archaeology and Historic Building Officer</b> , Cork County Council
<i>1994 – 1995</i>	<b>Principal Research Officer</b> , Urban Archaeological Survey, UCC, Cork
<i>1993 – 1994</i>	<b>Surveyor</b> , Landesamt für Archäologie, Dresden, Germany

## **Relevant Experience**

Mr Cronin is an archaeologist, town planner and building conservation consultant with over twenty years post-graduate experience in the public and private sectors. Mr Cronin has prepared numerous cultural heritage assessments for environmental impact assessments and has also supervised architectural surveys throughout the country. He has also acted as a built heritage consultant to Transport Infrastructure Ireland, The Heritage Council, the National Inventory of Architectural Heritage and various planning authorities.

Mr. Cronin has carried out archaeological and architectural heritage assessments for numerous large-scale infrastructure projects and the following are a short selection of same:

- **A1/N1 Newry-Dundalk Road Scheme** Dual carriageway link road across the border between Cloghoge roundabout, south of Newry, and Ballymascanlan interchange, north of Dundalk. Working in association with RPS Group, John Cronin was responsible for (i) Cultural Heritage Impact Assessment of the proposed scheme, (ii) expert Evidence at An Bord Pleanála hearing and (iii) specification of archaeological mitigation measures.
- **Galway City Outer Bypass (GCOB)** John Cronin project managed the archaeological, architectural and cultural heritage assessment input and specialist advise for the constraints, route option stage and EIS stage of the GCOB project. John also provided expert witness evidence at the oral hearing held by An Bord Pleanála.
- **Wind Farm Projects:** John has project-managed the assessment of numerous wind farm projects throughout the country and examples include Barnastooka and Kilgarvan (Co. Kerry), Sliabh Bawn (Co. Roscommon) and Streamhill (Co. Cork).

## Richard Barker

MLA. BA Env. PG Dip For.  
MILI.



**Position:** Principal Landscape Architect

**Qualifications:** Irish Landscape Institute Professional Practice Qualification – 2005  
MLA – Lincoln University - 2003  
PG Diploma Forestry – Canterbury University - 1996  
BA Environmental Science – Massey University - 1995

**Professional Affiliations:** Corporate Member of the Irish Landscape Institute

### Professional Experience

Richard formerly worked as a Town Planner in New Zealand, London and Dublin before moving into the field of Landscape Architecture. He has spent the last 16 years working as a Landscape Architect in Ireland and has considerable experience in the fields of both Landscape and Visual Impact Assessment (LVIA) and landscape design, covering all stages from project feasibility through to construction. This cross-over of expertise is invaluable in determining and designing the most appropriate and effective form of landscape and visual mitigation for infrastructural development projects.

Richard manages the LVIA department in Macro Works undertaking assessment work on a broad spectrum of projects from wind and solar energy, to roads and large-scale industrial and infrastructural development. Richard has personally completed the landscape and visual assessment of over 90 wind farms and 80 solar farms including nine SID projects. Consequently, he has considerable oral hearing expert witness experience. This extends to more than 15 oral hearings over the past 12 years with four of these being for large SID wind farm projects.

Richard has presented a number of conference papers relating to sustainable landscape design and LVIA as well as delivering the inaugural workshop on the landscape and visual effects of wind energy developments on behalf of the Irish Wind Energy Association. He has presented a paper to members of the Irish Landscape Institute on the application of the Guidelines for Landscape and Visual Impact Assessment (2013) using a wind energy case study. Richard has also delivered guest lectures to the University College Dublin professional course in EIA Management in relation to LVIA.

## Key Projects

Coom Wind Farm	Brookfield / Coillte	135MW SID wind energy development
Barnesmore Repower Wind Farm	SPR	85MW SID wind energy development
Derryadd Wind Farm	Coillte	120MW SID wind energy development
Cluddaun Wind Farm	Coillte	120MW SID wind energy development
Emlagh Wind Farm	Element Power	120MW SID wind energy development
Maighne Wind Farm	Element Power	120MW SID wind energy development
Yellow River Wind Farm	Greenwind	95MW SID wind energy development
Mount Lucas Wind Farm	Bord na Mona	80MW wind energy development
Carrowleagh / Kilbride Wind Farm	John Duffy Assoc.	48.5MW wind energy development
Bruckana Wind Farm	Bord na Mona	45MW wind energy development
Lisheen III Wind Farm	Bord Gais	20MW third phase wind energy development

Feasibility and design optimisation studies for 10+ Offshore wind energy sites

LVIA for 90+ other Wind Energy developments

LVIA for 80+ Solar Energy Proposals



<b>Cian</b> <b>Doughan</b>  <b>BSc - Landscape</b> <b>Architecture</b>  <b>MILI</b>	<b>Position:</b>	Landscape Architect
	<b>Professional Experience</b>	
	<p>Cian came to Macro Works as an honours graduate of Landscape Architecture from UCD and is now a full corporate member of the Irish Landscape Institute. He has been with Macro Works since 2016, working in a variety of roles that involve a combination of LVIA, landscape design and 3D modelling. He also worked for a leading landscape design office (Hollander Design) in New York for a year.</p> <p>Cian has exceptional graphic ability and his main field of interest in landscape Architecture is that of landscape planning and, in particular, LVIA. Cian has completed assessments for a wide range of development types across our portfolio, including important water supply projects, as well as a range of wind farm and solar farm applications.</p> <p>Recent work includes preparing the Draft Landscape Design Guidelines for Irish Water Infrastructure projects.</p>	