

Engineers Without Borders, Ireland CLG

Directors' report and financial statements for the period
ending 31 Dec 2018

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COMPANY INFORMATION

DIRECTORS

Declan Alcock
Liam McCarton
Billy Holland
Elaine Doyle (Appointed 1 June 2018)

JOINT SECRETARIES

Billy Holland (Appointed 2 May 2018)
Liam McCarton (Appointed 5th July 2019)

REGISTERED OFFICE

The Liffey Trust Centre
117-126 Sheriff Street Upper
Dublin 1

BANKERS

Bank of Ireland,
50-55 Baggot Street Lower,
Dublin 2

DIRECTORS' REPORT

for the year ended 31 Dec 2018

The directors present herewith their report and audited financial statements for the year to 31 Dec 2018

Main Object

The main object for which the Company is established (the "Main Object") is to bridge the gap between academia, industry and NGOs to give Irish engineers and scientists opportunities to learn about and contribute to sustainable development globally.

We do this by partnering with disadvantaged communities, both in Ireland and overseas, to improve their quality of life through education and implementation of sustainable engineering projects, while promoting global experience for engineers, engineering students, and similarly motivated non-engineers.

To achieve this core objective the company was engaged in the following principal activities during the year to 31 Dec 2018.

Build Solid Ground

This project, formally commenced following workshops in Bratislava, Slovakia from 15th – 17th January 2018, is a new partnership as part of the EU funded action entitled "Solid Ground: Building Critical Understanding and Active engagement for Sustainable Development Goal (SDG) 11 and the New Urban Agenda (Habitat III), promoting global housing, land rights, resilient and sustainable cities. This three year project focuses on land rights, disaster resilience, slum upgrading and equality.

The project goals are to:

- Educate Europeans about global development needs and solutions for housing and land in cities and urban settlements.
- Offer specialised non-formal learning for interested groups on land, gender equality , housing and poverty reduction.
- Link local to global by showing interdependencies between Europe and the Global South – to specific countries in Africa, Central and Latin America, and Asia.
- Motivate Europeans to volunteer and take action for housing and land rights.

This project is funded by the European Union, and is managed by Habitat for Humanity Europe, Middle-East & Africa (EMEA). It is part of **Solid Ground**, a global advocacy campaign to improve access to land for shelter by Habitat for Humanity International.

The **Build Solid Ground** project focuses specifically on Sustainable Development Goal (SDG) 11 – *Make cities and human settlements inclusive, safe, resilient and sustainable*. The project involves 14 partners from seven different EU countries – Bulgaria, Hungary, Ireland, Poland, Romania, Slovakia, and the United Kingdom – and aims to hold global leaders accountable for the commitments set out in the Sustainable Development Goals and the New Urban Agenda. The EU funding for this project comes from the Development, Education and Awareness Raising programme (DEAR), and so a particular goal of the project is to inform Europeans about these governmental commitments, engage citizens to support global housing and land issues and show how our social, economic and environmental well-being at home depends heavily on prosperity in the rest of the world.

DIRECTORS' REPORT

for the year ended 31 Dec 2018 contd

Development Education

“Where There Is No Engineer (WTINE) – Designing for Community Resilience” is a design initiative coordinated by the Development Technology Research Group within the Dublin Institute of Technology. The program is delivered in partnership with Concern Worldwide, Engineers Ireland and Engineers Without Borders Ireland. The program is funded through the Build Solid Ground project.

It provides participants with the opportunity to learn about design, teamwork and communication through real, inspiring, sustainable and cross-cultural development projects. By participating in the program, students and professionals will have the opportunity to design creative solutions to real life development projects.

Engineers Without Borders are the partners responsible for organising activities at undergraduate and industry level. In October 2017 EWB launched the “Where there is no Engineer – Designing for Community Resilience” Irish Aid Program (WTINE 2018). The programme was officially opened through a series of workshops at universities and ITs across Ireland. The specific target groups and numbers are as follows:

Dublin Institute of Technology Level 7: DT004/1 Engineering (1st Years), Level 8 : DT027/4 Civil Engineering Honours Degree (4th Years), DT024/4 Structural Engineering Honours Degree (4th Years), DT026/4 Product Design (Final Years), TCD Civil / Environmental Engineering (2nd Years), CIT 1st Year Civil Engineering, NCAD 2nd Years, QUB EWB Chapter.

A number of lunchtime toolboxes were also held with industry to promote the design challenge. The challenge was also promoted through social media (Facebook, Twitter and LinkedIn) and our website.

Outstanding undergraduate teams region participated in the National Finals where their work was reviewed by a multidisciplinary panel of judges. The WTINE finals took place at St. Laurence’s, TU Dublin Grangegorman campus, on Saturday the 9th June. The format of the finals was a “Dragon’s Den” style pitch. The focus was “Forced Migration” and the overall winner was TIDE, a menstrual tool kit concept which also includes a pad washing system, to help those in refugee camps.

Conferences

EWB hosted or co-hosted 3 conferences during the year as follows;

Seismic Summit

“Seismic Summit” took place on Wednesday 14th March from 9am – 3pm at Wood Quay Venue, Dublin City Council Civic Offices. It was a gathering of internationally recognised experts in the field of Building Conservation, Seismic Engineering & Post-Disaster Reconstruction, particularly in developing regions. The conference is kindly supported by Topcon.

Speakers included;

Randolph Langenbach, Conservatointech

A former Assistant Professor of Architecture at the University of California, Berkeley he has over 40 years of experience in the field of building conservation, earthquake retrofit of historic structures, conservation of masonry buildings, post-disaster damage assessment & repair, and has served as a consultant to UNESCO in Turkey, Georgia, India and Iran; to the World Monuments Fund in Iran and Haiti; to UN-HABITAT in Pakistan after both the 2005 earthquake and the 2010 floods; and to the Turquoise Mountain Foundation in Afghanistan.

DIRECTORS' REPORT

for the year ended 31 Dec 2018 contd

He has documented the damage to historical structures in India from the Bhuj (Gujarat) Earthquake of 2001, the 2002 earthquake in Tbilisi, Georgia, the 2003 Bam, Iran earthquake, and the 2005 earthquake in Kashmir.

Martijn Schildkamp, Smart Shelter Foundation

An Architect, Engineer and founder of three Smart Shelter divisions with a passion for alternative materials and experimental construction techniques, Martijn has researched, designed and built numerous projects in Sri Lanka, India, Nepal and Indonesia. All of the 17 schools Martijn designed and built in Nepal survived the 2015 earthquakes and he is currently a visiting researcher at Kyoto University in Japan where they have based a research group on his school designs for Nepal. Previously Martijn was a finalist for one of the most prestigious design awards in the world, the Index Award. The theme was 'Design to improve life', and nominated was the general philosophy of Smart Shelter Foundation.

Kubilây Hiçyılmaz, Arup

Kubilây is Technical Director for large Seismic Projects with Arup working on complex performance-based structures and retrofitting buildings to improve their life-safety performance. Projects he has worked on include Abu Dhabi International Airport, Guggenheim Abu Dhabi, Channel Tunnel Rail Link, Turmenistan Oil Platform, & Twickenham Stadium. Kubilây has significant experience of working in post disaster situations within the humanitarian sector including leading teams in Haiti doing post-earthquake damage assessment and training and implementing an earthquake engineering training programme in Kashmir after the 2005 South Asian Earthquake. He continues to provide engineering review for a variety of humanitarian organisations and Universities to further the understanding of the seismic behaviour of traditional construction typologies.

ARCC2018 - Achieving Resilient Cities and Communities

The cities and communities of the 21st Century face huge challenges in coping with climate change, energy demands, water and wastewater supply together with food and health considerations. Nature Based Solutions (NBS) are both natural and constructed systems which utilize physical, chemical and microbiological treatment processes.

The conference series featured a number of international experts who presented NBS case studies from across Europe followed by a number of interactive workshops. The outputs from these workshops are a NBS Toolkit which presents a portfolio of NBS technologies and equips the user with the skills to promote the inclusion of NBS technologies in their day to day work.

Day 1: Cities – Tuesday 9th October

Day 1 was aimed at Builders, Engineers, Architects, Urban Planners and Designers. It featured presentations by European experts and by DIT personnel on the design, installation and application of various NBS technologies.

The participants then split into workshops, mentored by the experts and designed a NBS scheme in conjunction with them based on a real life situation. Day 1 concluded with a presentation by the workshop groups of their scheme designs.

Day 2: Communities - Wednesday 10th October

Day 2 was aimed at the community worker/activist and the development worker. It focused on the applications of NBS technology and how these technologies can be used to reinforce community structures and empower communities to address their own problems and produce solutions.

DIRECTORS' REPORT

for the year ended 31 Dec 2018 contd

Speakers included;

Joan Garcia

Joan Garcia is Professor of Environmental Engineering at the Department of Civil and Environmental Engineering of the Technical University of Catalonia-BarcelonaTech (UPC). He holds a degree in Biology from the University of Barcelona (UB), specialising in wastewater treatment engineering. He has been a postdoc research visitor at University of California at Berkeley (2001), and University of Ghent, Belgium (2005). He was recognised by the Spanish Ministry of Science and Innovation for the Intensification of Research Activity for his contributions to water resources research and wastewater engineering, and has also received an award by the Fulbright Commission to take a sabbatical in Florida Gulf Coast University, USA (2018). He has written over 250 articles in scientific as well as technical journals and proceedings.

Victor Beumer

Dr. Victor Beumer is a Senior Landscape Ecologist. Victor is working on Nature-based Solutions and Green Infrastructure, meaning: the application of natural solutions for multiple benefits like increased water safety, enhanced water storage and improved water quality, but also recreation, liveability and heat reduction.

In the last 6 years Victor has focused his work on cities and urban areas. Since 2017 he is also the cluster leader 'Hybrid Grey and Green Infrastructure' within the EU Water Platform (WssTP). Within Deltares he was responsible for the knowledge programme 'Eco-Infrastructure', combining ecological principles with civil and hydraulic engineering solutions.

Albert Jansen

Albert Jansen has dedicated his professional life to membrane technologies with water as most important application. He is currently affiliated with Wetsus to set up European projects and is the Chair of the Dutch membrane Association. His career started at TNO as a scientist and project leader to develop gas separation and filtration type of membranes. During a period of 15 years he was the TNO department leader for chemical engineering focusing on innovations with separation technologies. The last fifteen years Albert has focused on water issues as a business developer. He is one of the founding fathers of EWP and WssTP, where he was the vice-chair for some time and currently the leader of the working group Water and Industry. In EIP Water he is leading the action group on industrial water reuse. Next to this Albert is a democratic elected board member for a Dutch Water district (HDSR).

Pat Kennedy

Pat is the CEO and head of digital strategy at eTownz based in Dublin. eTownz specialise in developing online tools for the community development sector and have also undertaken a number of research projects in this area also in collaboration with Dr. Maura Farrell & Dr. Vincent Carragher of NUIG. eTownz recently launched their community development dashboard which is an online tool that helps communities compile and maintain multi category community plans.

Liam McCarton

Liam McCarton is a Chartered Civil Engineer, with over 25 years' experience in International Development. Liam has project managed major infrastructure projects in Ireland, Asia, Africa and South America. Liam leads the Development Technology in the Community (DTC) Research Group within the Water Innovation Research Centre (WIRC) at DIT. Liam is a **D** board member of the Environmental Science Association of Ireland (ESAI), and is also a director of Engineers Without Borders (EWB) Ireland.

DIRECTORS' REPORT

for the year ended 31 Dec 2018 contd

Dr. Sean O'Hogain

Dr. O'Hogain has been lecturing on the Engineering degree course in DIT for 30 years, specialising in water and wastewater analysis. Recent teaching innovations have included courses in sustainability and climate change. Research topics have included Reed beds (design, construction and monitoring) and Rainwater Harvesting (design, construction and monitoring). Research projects included TECSPAR, an EU funded collaboration between three European Institutions and three Latin American Institutions.

Declan Alcock

Declan Alcock is a Chartered Engineer with 18 years' experience in Building Services Consultancy and Sustainable Building Design. He is Project Director for Sustainability with Varming Consulting Engineers. Qualifications include MSc Energy & Sustainable Building Design, BREEAM Accredited Professional (BREEAM AP), BREEAM International New-Construction Assessor and Certified Passive House Designer (CPHD). He has also lectured at MSc level in "Sustainable BIM Design and Construction". He is a Director of the Irish Green Building Council (IGBC) and Director of EWB Ireland where he is involved in the EU DEAR "Build Solid Ground" project.

EWB Annual Conference

Engineers Without Borders (EWB) Ireland 5th National Conference took place at Engineers Ireland, Clyde Road, Ballsbridge on Thursday the 27th September 2018, from 6:00pm – 9:00pm. Speakers included:

Sachin Bhoite

Sachin is part of ARUP's 100RC (Resilient Cities) team, working on the City Resilience Index supported by the Rockefeller Foundation. An architect and urban designer by training, Sachin joined Arup in 2008, to work on complex and large scale urban projects in Europe, Asia, the Middle East and Australia. He brings trans-disciplinary perspectives to city design, making cities more resilient, sustainable and equitable, integrating this work with health, infrastructure, transport, planning and landscape.

Eoin Bracken & Daniel Morgan

The 2016 Winners of our "**Where There Is No Engineer**" (WTINE) competition gave an update on their Biochar Kiln. The team travelled to Nepal in 2017, and are developing the latest prototype with soil & growth testing currently being conducted in Bray.

Rachael Gannon & Marta Imaz

Both Engineers at ARUP Dublin they presented about their volunteer trip to Zambia in July 2018. They spent 2 weeks working in the town of Kabwe with Habitat for Humanity.

Workshops

EWB held an ideation workshop 9th July at Facebook, Dublin to develop solution to homelessness in Ireland and plastic waste in Kenya. This was facilitated by Colin Keogh of the Rapid Foundation.

DIRECTORS' REPORT
for the year ended 31 Dec 2018 cont.

Events

As part of the Build Solid Ground project and with the objective of raising awareness of UN Sustainable Development Goal 11 EWB had exhibition stands at a number of events during the year;

Environ 2018

The Irish Environmental Researcher's Colloquium (ENVIRON) is the largest annual gathering of environmental researchers in Ireland regularly attracting over 300 delegates. Environ 2018 was held at Cork Institute of Technology from 26th to 28th March and provides a platform for researchers to present to a wide audience and also gives an opportunity to engage with the general public.

PM Summit

Held on the 17th July at the Conference Centre Dublin, PM Summit is Ireland's most diverse conference for project, program and portfolio management professionals.

Nepal Ireland Day

EWB Ireland participated in the Nepal Ireland Day hosted by the Embassy of Nepal in London, Nepal Tourism Board and Nepal Ireland Society on 9th September 2018. The event took place at Farmleigh, Phoenix Park in Dublin and we held an information stall on the WTINE project activities.

IGBC Level(s)

This event, held at Europe House, Dublin on the 16th October was organized in partnership between European Commission DG Environment, World Green Building Council, and Irish Green Building Council with the support of Department Communications Climate Action and Environment (DCCAIE) and Engineers without Borders to mainstream sustainable building assessment by creating a common approach.

Volunteering

The winning team from "Where here is No Engineer" 2017 travelled to Nepal in early 2018 with their project "LifeLid" to scope their concept further and to experience first-hand the country, environment and people.

Lifelid is a pocket sized device which produces chlorine from salt and water. The device can be fitted to any standard bottle. The salt water solution is put into the bottle and when the device is turned on the current starts to turn the solution to chlorine which can then be used to purify drinking water.

RESULTS FOR THE PERIOD AND STATE OF AFFAIRS AT 31 DECEMBER 2018

We received funding of €96,285 and incurred program expenditure of €42,295 during the year leaving the company with a surplus for the period of €53,989

DIRECTORS AND SECRETARY

The persons who at any time during the financial year were directors or secretary of the company are listed on page 2. In accordance with the Articles of Association all of the directors of the company retire at the Annual General Meeting and being eligible offer themselves for re-election.

DIRECTORS' REPORT
for the year ended 31 Dec 2018 cont.

DIRECTORS' RESPONSIBILITIES STATEMENTS

The directors are responsible for preparing the Directors' Report and the financial statements in accordance with Irish law and regulations. Irish company law requires the directors to prepare financial statements giving a true and fair view of the state of affairs of the company and of the surplus or deficit for each financial year.

Under that law the directors have elected to prepare financial statements in accordance with the companies Act 2014 and FRS 102 "The financial Reporting Standard applicable in the UK and the Republic of Ireland" issued by the Financial Reporting Council. Under company law the directors must not approve the financial statements unless they are satisfied that they give a true and fair view of the assets, liabilities and financial position of the company as at the financial year end date and of the surplus or deficit of the company for the financial year and otherwise comply with the Companies Act 2014.

In preparing these financial statements, the directors are required to:

- Select suitable accounting policies and then apply them consistently;
- Make judgments and estimates that are reasonable and prudent;
- State whether the financial statements have been prepared in accordance with applicable accounting standards, identify those standards, and note the effect and the reasons for any material departure from those standards; and
- Prepare the financial statements on the going concern basis unless it is inappropriate to presume that the company will continue in business.

The directors are responsible for ensuring that the company keeps or causes to be kept adequate accounting records which correctly explain and record the transactions of the company, enable at any time the assets, liabilities, financial position and profit or loss of the company to be determined with reasonable accuracy, enable them to ensure that the financial statements and Directors' Report comply with the Companies Act 2014.

BOOKS OF ACCOUNT

The directors are responsible for ensuring that proper books and accounting records, as outlined in Section 281 to 285 of the Companies Act 2014, are kept by the company. The books and accounting records are maintained at the company's registered office, The Liffey Trust Centre, 117-126 Sheriff Street Upper, Dublin 1.

AUDITORS

The directors have availed of the provisions of the Companies Act 2014 to avail of an audit exemption under the provisions of a small company.

On behalf of the Directors

Declan Alcock

Liam McCarton

Director

Director

Date: 22nd July 2018

STATEMENT OF FINANCIAL ACTIVITIES
for the year ended 31 Dec 2018

	2018 <i>Restricted Funds</i> €	2018 <i>Unrestricted Funds</i> €	2018 <i>Total</i> €	2017 <i>Unrestricted Funds</i> €
Income	82,873	13,412	96,285	5,000
Expenditure				
- Operational	-	(3,572)	(3,572)	-
- Project	(38,974)	-	(38,974)	(2,242)
Net Surplus for the year	<u>43,899</u>	<u>9,840</u>	<u>53,739</u>	<u>2,758</u>

The statement of financial activities has been prepared on the basis that all operations are continuing operations. There are no recognised surpluses and deficits other than those passing through the statement of financial activities.

Approved by the directors on 22nd July 2018

Declan Alcock

Liam McCarton

Director

Director

STATEMENT OF FINANCIAL POSITION
at 31 December 2018

	2018	2017
	€	€
Current Assets		
Cash at bank	<u>62,862</u>	<u>5,630</u>
Net Current Assets	62,862	5,630
Current Liabilities		
Creditors	<u>(3,493)</u>	<u>-</u>
Total Assets less Liabilities	59,369	5,630
Funds of the Organisation		
Unrestricted Balance	15,470	5,630
Restricted Balance	43,899	-
Funds of the Organisation	<u>59,369</u>	<u>5,630</u>

We, as directors of Engineers Without Borders, Ireland Limited state that:

(a) the company is availing itself of the exemption provided for by Chapter 15 of Part 6 of the Companies Act 2014,

(b) the company is availing itself of the exemption on the grounds that the conditions specified in s.358 are satisfied,

(c) the members of the company have not served a notice on the company under s.334(1) in accordance with s.334(2),

(d) we acknowledge the company's obligations under the Companies Act 2014, to keep adequate accounting records and prepare Financial Statements which give a true and fair view of the assets, liabilities and financial position of the company at the end of its financial year and of its profit or loss for such a year and to otherwise comply with the provisions of Companies Act 2014 relating to Financial Statements so far as they are applicable to the company.

Approved by the directors on 22nd July 2018

Declan Alcock

Liam McCarton

Director

Director

CASH FLOW STATEMENT for the year to 31 Dec 2018

	2018	2017
	€	€
Net Cash inflow/(outflow) from operating activities	57,232	2,758
Capital Expenditure	-	-
Increase / (Decrease) in cash	<u>57,232</u>	<u>2,758</u>

NOTES TO THE FINANCIAL STATEMENTS

for the year ended 31 December 2018

1. GENERAL INFORMATION

Engineers Without Borders, Ireland is a company limited by guarantee incorporated in the Republic of Ireland and a charity registered in the Republic of Ireland

2. ACCOUNTING POLICIES

Statement of Compliance

The financial statements are prepared in accordance with the Companies Act 2014 and FRS 102 "The Financial Reporting Standard applicable in the UK and Republic of Ireland" issued by the Financial Reporting Council. The company has applied the recommendations contained Charities SORP (FRS 102) effective 1 Jan 2015.

Accounting convention

The financial statements are prepared under the historical cost convention

Foreign currencies

The financial statements are expressed in euro (€).

Income

Income from events is recognised as earned and received.

Grants from governments and institutional donors, are recognised as income when the activities which they are intended to fund have been undertaken, the related expenditure incurred, and there is reasonable certainty of receipt.

Expenditure

Expenditure is recognised when a liability is incurred.

Fund Accounting

Unrestricted funds are general funds that are available for use at the board's discretion in furtherance of the objectives of the charity.

Restricted funds are those received in a particular area for a specific purposes, the use of which is restricted to that area or purpose and the restriction means that the funds can only be used for specific projects or activities.

Cash

Cash and cash equivalents include cash on hand, demand deposits and other short term highly liquid investments with original maturities of three months or less.

3. SIGNIFICANT ACCOUNTING JUDGEMENTS AND KEY SOURCES OF ESTIMATION UNCERTAINTY

The preparation of these financial statements requires management to make judgement, estimates and assumptions that affect the application of policies and reported amounts of assets and liabilities, income and expenditure.

Judgements and estimates are continually evaluated and are based on historical experiences and other factors, including expectations of future events that are believed to be reasonable under the circumstances. The judgements and estimates used have not had a material impact on the financial statements.

NOTES TO THE FINANCIAL STATEMENTS (Continued)

for the year ended 31 December 2018

4. STAFF

Average number of staff for 2018 was 1 (2017 Nil).

The total cost of salary and related for 2018 was €23,756. All other activities were undertaken on a voluntary basis.

Directors gave their time free of charge and are not compensated for their time.

5. LEGAL STATUS

The company is incorporated under the Companies Act, 2014 limited by guarantee and not having a share capital.

Each member of the company undertakes to contribute to the assets of the company in the event of it being wound up while he is a member or within one year afterwards, for payments of the debts and liabilities of the company contracted before he ceased to be a member, and the costs, charges and expense of winding up, and for the adjustment of the rights of the contributions amongst themselves, such amount as may be required, not exceeding €1.

The number of members at 31 December 2018 amounted to 30

The company is registered as a charity, the registered number is 20158101.

6. APPROVAL OF FINANCIAL STATEMENTS

The directors approved the financial statements and authorised them for issue on 22nd July 2018.