IPWEAQ Board meeting

9 February 2018
Gavin Blakey, OAM
Chair of Board

Heidi Michael
A/CEO

Jane Bateson
EWB Connect and International Programs Coordinator
Who are we?

We are a reputable experienced NGO dedicated to social impact through humanitarian engineering in Australia and overseas.
About us

**our vision** everyone has access to the engineering knowledge and resources required to lead a life of opportunity, free from poverty

**our mission** we connect, educate and empower people through humanitarian engineering
aim 1: solutions for social change
we will enable appropriate solutions to alleviate poverty and accelerate inclusive, sustainable development through engineering and technology

aim 2: redefining engineering
we will redefine engineering as a community-centred profession that provides leadership in the creation of a more sustainable and inclusive world

aim 3: a global movement
we will inspire and mobilise a global community in engineering for social change
Thematic areas

**Clean water and hygiene**
Over one third of the world’s population does not have access to adequate sanitation and 783 million people live without safe drinking water.

**Clean energy**
About 1.3 billion people worldwide (approximately 18% of the global population) do not have access to electricity, and 2.6 billion people are without clean cooking facilities.

**Appropriate housing**
It is estimated that 100 million people are homeless worldwide and as many as 1 billion people lack adequate housing. Across Australia this is an estimated 105,237 homeless people.

**Digital access**
Digital access across the Indo Pacific region is generally very poor. This prevents people from accessing information of changing weather patterns, current events, disasters and early warning systems, as well as general information on agriculture and markets to facilitate adaptation.
Business Services

- EWB Connect - pro-bono community projects; STEM workshops in schools.
- Facilitated **Aboriginal and Torres Strait Islander Peoples’ cultural awareness training** for staff; Short in-office workshops; In-depth community-led study tours.
- **Tailored brokering and training services** so businesses can connect to the **networks, knowledge and tools needed to access and deliver projects** with a social impact dimension.
• Competency-based humanitarian engineering design modules embedded in Engineering degree
• EWB Challenge – Real-world design projects for 1,140 students since 2015.
• EWB Design Summit – Overseas educational study tours providing 2nd year students with professional experience in International development projects.
• EWB Research – innovate appropriate technical solutions.
Community Development

- Expertise in **appropriate and inclusive WASH, Energy and Accessibility technologies**
- Co-development of engineering & technical solutions with local communities and partners.
- **Training and mentoring** to increase capacity of local technical sector including Engineering Professional Field Placements.
- **Social enterprise solutions** – biodigesters and water filtration
Our annual impact

- **EWB Membership is 36% female; 69% School Outreach workshops led by women; 44% Design Summit participants are female**

- International development work totalling **25,000 skilled volunteer hours** directly benefitting **1,900+** people in 3 countries

- STEM workshops for **13,000 school students**, including **3,000+ Aboriginal and Torres Straits children**

- Facilitated 16 **Pro-bono projects** of which **50% are Aboriginal and Torres Strait Islanders community projects**.

- **75% of university engineering students (9,000/year) take EWB modules**
Key mechanisms

**partner**
We work together with communities to create a better world.

**think**
We engineer new ideas for a better world.

**learn**
We curate knowledge to develop engineers for a better world.

**belong**
We bring people together to innovate for a better world.
Kakadu plum harvest underway in remote Indigenous community of Wadeye

ABC Rural  By Matt Brann

Updated 28 Apr 2016, 9:17am
Our plans for the future of public works engineering in Queensland...

**Strategy 1: Informs: Promote Excellence in the Delivery of Sustainable Public Works and Services**

**Strategy 2: Connects: Facilitating the Development and Exchange of Ideas, Information and Technology**

**Strategy 3: Represents: Advancing Public Works Engineering and Services issues on the Public Agenda**

**Strategy 4: Leads: Fostering the career and skills growth of members**

**EWB Aim 1: Solutions for social change**

**EWB Aim 2: Redefining Engineering**
IPWEAQ and EWB

Working together:
• EWB and IPWEAQ membership reach
• Engage with industry associations and their partners

Possible intersections:
• EWB Connect – pro bono work for community organisations
• Schools outreach – STEM
The EWB School Outreach program educates primary and high school students about the role of engineers in solving global challenges such as water and sanitation, construction and climate change through creative, hands-on workshops in their classrooms.

Workshops are facilitated by trained EWB volunteers including university students, graduates and professional engineers, highlighting inspiring career options available to engineers and technical professionals and the power of humanitarian engineering to create positive change.

The program targets primary and secondary school students, particularly those from Aboriginal and Torres Strait Islander, female or low socio-economic backgrounds.
IPWEAQ Board meeting

9 February 2018