

# Edgar (Ted) Stubbersfield

## Objective

To encourage, educate and enthuse all areas of the supply, design and construction chain to achieve excellence in weather exposed timber design

## Summary

I am presently working as a consultant offering timber design assistance  
My expertise was developed over many years in the timber industry through observation, research and innovation  
My experience was mainly in fully weather exposed structures in difficult environments  
I have received industry and government awards for innovation  
I have an unusual ability to think “outside of the square” as evidenced in granted patents

## Professional Experience

1975— 1997

*Gatton Sawmilling Co*

*Gatton, Qld*

Partner and later Director

As I gained experience in the family business I eventually took overall responsibility for running the sawmill, planning mill, treatment plant, hardware store, transport division and crane hire

1997— 2012

*Outdoor Structures  
Australia*

*Gatton, Qld*

Director

I was responsible for the overall running of the business including production, marketing and research. I was also responsible for advice given to consultants and for AutoCAD drawings

2012— Present

*Gatton, Qld*

Timber Design and Use Consultant

The new role involves providing expertise in weather exposed timber to producers, designers and builders on a consultancy basis. Examples of work undertaken are

- Assessment of working drawings
- Assessment of construction standard
- Assessment of final construction
- Providing timber specifications
- Assessment of existing decks and footbridges
- Grading hardwood and pine for internal and external use
- Preparing expert witness reports on external timber applications
- Assessment of whether timber landscaping meets an acceptable standard
- Advising whether timber and timber treatment meets specification

## Education

I received the normal state and high school education in Gatton, leaving in 1966 to start an apprenticeship as a motor mechanic in the family business. I completed adult matriculation by correspondence  
Various trade qualifications were achieved including A Grade Motor Mechanic  
Visual Stress Grading (Four species) October 1984, certificate no. SAJ00435  
Level 1 Advanced Timber Bridge Maintenance, Restoration and Inspection  
Certificate Training Program (with Honours) 2012

## Degrees

1988— 1993

ICI University

Irving, Texas

### **Bachelor of Arts**

2008— 2011

University of Wales

Bangor, Wales

### **Master of Theology in Applied Theology**

## Awards

Advanced Technology Showcase – Deckwood and LifePlus Decking,  
Advanced Technology Showcase - Bollards,  
Timber manufacturer of the year (QTIA Awards), 2004  
Best Timber Manufacturing operation (QTIA Awards), 2006  
Sawmiller of the year (Finalist) (QTIA Awards), 2004  
Most Innovative Product (QTIA Awards), 2004  
Best New Product (QTIA Awards), 1998  
Best Industry Promotion (QTIA Awards), 1998

## Patents and Registered Designs

I have the ability for inventive thinking. This has allowed us to create many innovative products. Apart from those listed below, I have lodged many patent applications for a diverse range of products including medical devices not listed below.

AU2003204845	A Board For Decking	Standard	2003-06-23
AU2003100493	A board for decking	Innovation	2003-06-23
US D330849	Insulator Pin	Standard	Nov 10. 1992
AU1993050214	A System For Maintaining Timber Structures	Standard	1993-10-22
AU1990056373	Cross-Arm Mounting Bracket For Poles	Standard	1992-03-09
199003813	Anti Split Plate	Registered	1990-11-23

29954/92	Improved Coachscrew	Design	
AU1989035257	Brake shaft bushes	Petty Patent	1992
AU1986058563	Roller Bearing and Seal Assembly	Standard	1989-05-29
AU1983900058	Timber Stress Grading Machine	Standard	1986-06-11
AU1981074795	Notching Tool	Standard	1984-06-29
	Earthwire Guard	Registered Design	1981-08-31

## Professional and Community Memberships

Gideons International

## Publications

### **Boardwalk Design Guide, First Edition 1998, Self published**

This Guide made public part of the results of our first research project into timber

### **Boardwalk Construction Guide, First Edition C 1998, Self published**

This Guide made public part of the results of our first research project into timber

### **Deckwood selection Guide, First Edition 2000, Self published**

This Guide made public part of the results of our second research project into timber

### **Light Bridge Manual, First edition 2000, Self published**

This Guide made public part of the results of our second research project into timber

### **Traffic Barrier, Fencing and Bollard Guide, First edition C 1999, Self published**

This Guide was the distillation of our experience with handrails.

Seven books have been completed of a series entitled *Timber Design Files*. The new series explain best practice and show the consequence of adopting different practices.

### **Timber Preservation Guide (Revised). ISBN: 978-0-6486781-2-0**

This guide explains the strength and limitations of timber preservation. The 2011 edition was revised and expanded to incorporate industry and standard changes.

### **Deck and Boardwalk Design Essentials. ISBN: 978-0-9873994-1-0**

This guide explains how to design commercial decks and illustrates bad practice

### **The Seven Deadly Sins of Timber Design. ISBN: 978-0-9873994-3-4**

This guide lists the common mistakes in timber design and how to avoid them

### **Grading Hardwood (Understanding AS2082) ISBN: 978-0-9924259-2-0**

This guide explains how poor the visually stress graded timber standard is when it comes to specifying timbers that will perform in the weather.

### **Timber Horse Fencing. ISBN: 978-1494257415**

This guide takes the reader through the decision making process to allow an informed decision about the compromises in design that will have to be made.

### **Architectural Timber Battens. ISBN: 978-0-9944157-0-7**

This guide explains how to use timber as battens without them proving to be a maintenance nightmare.

**Timber Fences**, ISBN: 978-0-9944157-2-1

This guide explains how to deliver timber fences of high quality that perform well and age gracefully

**Timber Footbridges**, ISBN: 978-0-9944157-1-4

This guide draws professional designers to the critical aspects of design that, if not attended to, will adversely impact a bridge's life. It also provides an idea book as a starting point for bridge design

**Timber Joints**, ISBN: 978-0-9944157-4-5

This guide looks at the history and future direction of timber joints. The discussion on whether to use stainless or galvanized fasteners is especially helpful.

**External Timber Furniture**, ISBN: 978-0-9944157-3-8

This guide explains how to detail external furniture for both robust items such as national park use and more refined architectural pieces.

**Timber in Playgrounds**, ISBN: 978-0-6486781-4-4

This guide examines the suitability of different Australian Standards that apply to timber in playgrounds and gives a basis for best practice in species selection, specification, design, construction and inspection

### Assistance with Publications

Footbridges, A Manual for Construction at Community and District Level. Ron Dennis, Employment-Intensive Investment Branch, International Labour Office, Geneva

External Timber Structures, Preservative treatment and durability BRE Digest DG503 by Tim Reynolds and Ed Suttie, BRE, and Chris Coggins, Wood Protection Association

Memento du Forestier, Two chapters have been supplied to this prestigious French publication which is presently being updated and re-released. These chapters are "Outdoor Structures" and "Timber Construction".

### Personal Interests

I am actively involved in a local Baptist Church  
Travel, particularly in third world countries  
Driving with friends  
Writing

### References

References can be found on the Outdoor Structures Australia website under Consultancy.

## Nature of Present Work

My consulting services have been used by engineers and local government to explain why timber structures had given inadequate service. Usually this was through not understanding what the nominated timber grade meant combined with inappropriate detailing. Recent work has involved assessment of drawings to identify issues prior to construction and to supply appropriate timber specifications and confirmation grading. I have identified up to 50% non-compliance with decking and 30% with framing!