DANIEL A. TINGLEY, PH.D., P.ENG., MIE AUST., CPENG., RPEQ Wood Research and Development



Dr. Dan Tingley serves as Executive Director and Senior Design Engineer for Wood Research & Development Ltd. He is the inventor of the award-winning FiRP® Panel reinforcement technique, which makes use of high-strength reinforced plastics to strengthen wood products.

Here is a brief biography of Dr. Tingley. A complete curriculum vitae is available in PDF format with more information on his experience.

ACADEMIC BACKGROUND:

- Ph.D. Oregon State University, 1997, Major in Forest Products, Minor in Civil Engineering
- M.Sc.C.E. University of New Brunswick, 1988, Structural Engineering in Wood
- B.Sc.F.E. University of New Brunswick, 1977, Forest Engineering

BRIEF CAREER SUMMARY:

Dr. Tingley has worked in the wood products industry for over 45 years and currently holds more than 40 published patents in the reinforced wood field in the US and other countries. He has authored over 125 conference proceedings, publications, and articles in the area of reinforcement of wood and wood composites. Dr. Tingley is responsible for the oversight of projects in the US, Canada and Australia. He has over 1300 projects under seal.

Dan Tingley has worked closely with government and clients to produce innovative designs for structures worldwide. Dr. Tingley holds memberships with engineering associations globally, is a published author, and teaches and speaks at conferences around the world.

Dr. Tingley is:

- Senior Engineer for Wood Research and Development (WRD) and IAS
 accredited Testing (TL1-93) and Third-party laboratory (AA 644) as well as ALSC
 certified test agency (Test Lab 21) with a large Commercial Timber Structures
 design and engineering team with offices in Australia, Canada, United States,
 South Africa and Saudi Arabia.
- Currently the Chairman of the subcommittee on the Development of The Handbook of Conventional Maintenance Practices for Railway Bridges for Committee 10 – Bridge Maintenance & Construction
- Chairman of the subcommittee on specifications for Committee 7- Timber Structures.

CURRENT EMPLOYMENT:

Wood Research and Development Ltd.

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MEMBERSHIPS:

USA

- ALSC American Lumber Standards Committee Lumber Agency & WPM Agency
- AREMA American Railway Engineering and Maintenance of Way Assoc.
- ASCE American Society of Civil Engineers
- ASTM American Society Testing Materials: Voting Member
- FPS Forest Products Society
- SAF Society of American Foresters
- SWST Society of Wood Science and Technology
- WCLIP West Coast Lumber Inspection Bureau

CANADA

- APEGBC Assoc. Professional Engineers & Geoscientists of British Columbia
- APEGNB Assoc. of Professional Engineers & Geoscientists of New Brunswick
- APEGA Assoc. of Professional & Geoscientists of Alberta
- APEGS Assoc. of Professional Engineers & Geoscientists of Saskatchewan
- APENS Engineers of Nova Scotia (Life Member)
- APEY Assoc. of Professional Engineers of Yukon
- APEGM Engineers Manitoba
- CSCE Canadian Society for Civil Engineering
- ICOMOS International Council on Monuments and Sites
- PEGNL Assoc. of Professional Engineers & Geoscientists of Newfoundland & Labrador
- PEO Professional Engineers of Ontario
- SEA BC Structural Engineer Association of British Columbia
- Canadian Wood Council

AUSTRALIA

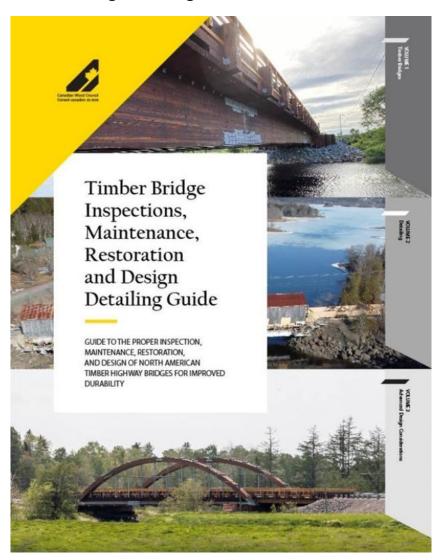
- BPEQ Board of Professional Engineers QLD
- AUS EA Engineers Australia, National Engineering Register (NER)
- IPWEAQ Institute of Public Works Engineering Australia Queensland
- Engineers VIC
- myCAV Victoria Consumer Affairs

NEW ZEALAND

• IPENZ - Engineering New Zealand

PUBLICATIONS AND BOOKS:

 Canadian Wood Council Textbook; Timber Bridge Inspections, Maintenance, Restoration and Design Detailing Guide.



AREMA Conventional Maintenance Practices for Railway Bridges

Compendium of Maintenance Practices for Railroad Bridges



Prepared by
Dan Tingley Ph.D., P.Eng.,

Subcommittee 4 Chairman - Repair Manual, Construction & Maintenance, AREMA Committee 10

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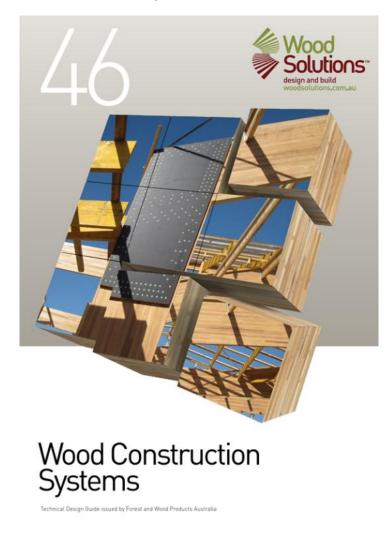
Phillip Trigg

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November 20, 2023

 $\label{lem:continuous} This handbook \ has \ been \ developed \ to \ serve \ as \ a \ resource \ for \ a \ new \ AREMA \ seminar \ series \ on \ Maintenance \ of \ Railway \ bridges.$

Guide to Wood Construction Systems Guide 46 Australia



- McGraw Hill Text. Structural Renovations
- More than 1000 timber structures documents including:
- Published Research Papers
- Trade Magazine Articles
- Research Paper Reports

SPECIAL AWARDS, PRIZES, DECORATIONS:

- 2022 WoodWorks Atlantic top award for all wooded products in Eastern Canada
- 2022 WoodWorks Atlantic Jurors award for Roger Bacon Bridge

- 2022 WoodWorks Atlantic Wood Champion Award
- 2021 Albert County Chamber of Commerce Business Excellence Award Environmental Stewardship
- 1997 CIF "Nova" Award for Innovation (worldwide competition all construction products. Only person to win NOVA and Charles Pankow Awards back-to-back, only person to win both awards in wood and high strength fibers)
- 1996 Applied Science Technologists & Technicians of British Columbia (ASTTBC) Award for advanced technology (worldwide competition).
- 1996 Civil Engineering Research Foundation (CERF) Charles Pankow Innovative Applications Award (worldwide competition only structural products).
- 1993 Association of Professional Engineers of Nova Scotia design award for designing the "Hector Heritage Quay," an all-timber connector building with adjustable base connectors creating fixed end moment connectors in a green wood situation.
- 1993 Advanced Material Center, Oregon State University, \$3,000.00 scholarship for graduate study.
- 1992-94 Graduate Fellowship for three years to complete Ph.D. at Oregon State University
- 1988 Nova Scotia Architects Association Innovation in Engineering Award (Timber frame distillery).
- 1982-83 Association of Professional Engineers of New Brunswick, post graduate studies scholarship (two consecutive years).