

From Field to Mill: Modelling Cane Railways

Lynn Zelmer

- ***Industry background***
- ***Modelling techniques***
- ***Modelling challenges***



**SUGAR TRANSPORT
ONLY
BEYOND THIS
POINT**

Queensland Cane Districts



Mossman-Musgrave
Atherton Tablelands Cairns
Innisfail-Tully Herbert
Burdekin Proserpine
Mackay-Sarina
Bundaberg Maryborough
Sunshine Coast (Moreton)
Brisbane-Rocky Point











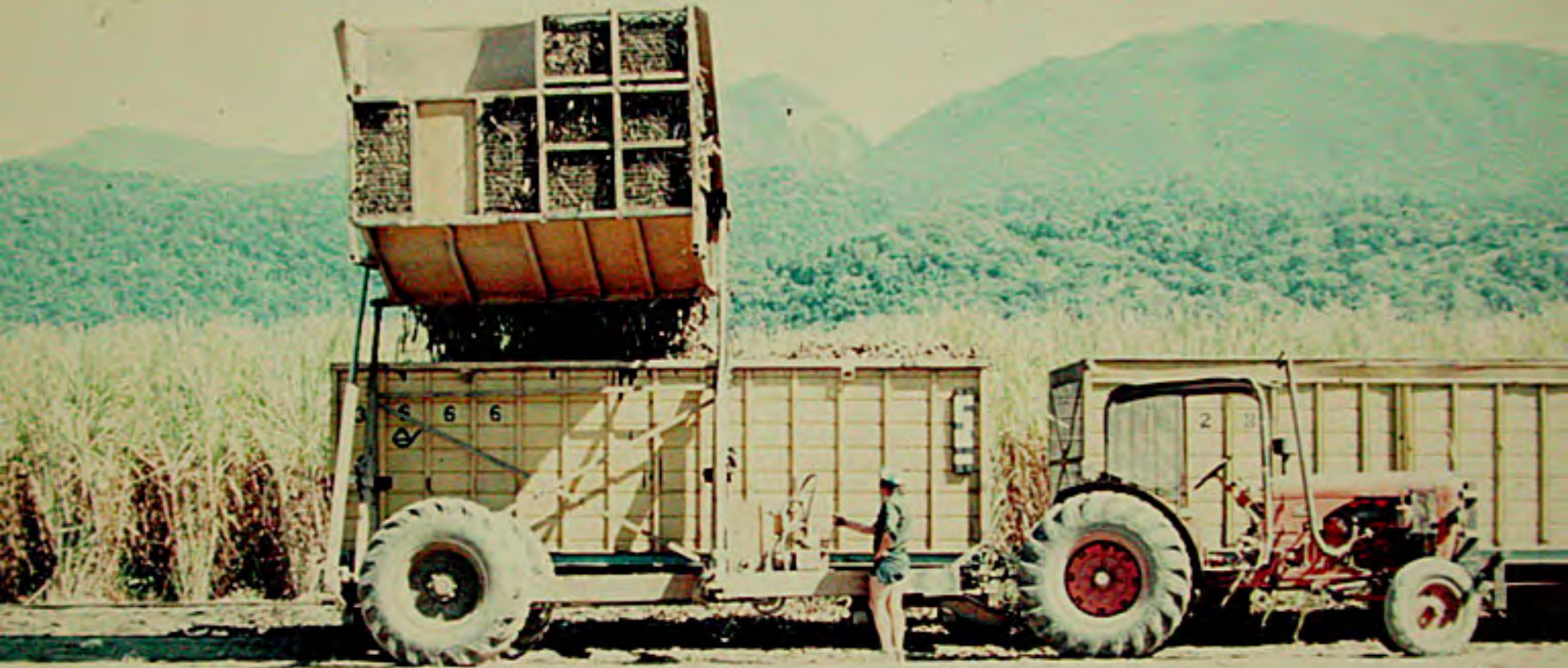








4332







Modelling Cane Railways Operations and Maintenance

From Field to Mill: Modelling Cane Railways -- Modelling the Railways of Queensland Convention 2002

Huxley Depot (Isis Mill) photo by Greg Stephenson, Isis Mill documents from the Carl Millington Collection courtesy Isis Mill

CRUSHING PRIORITY SHEET

DRIVERS ARE TO RECORD NUMBER OF BINS AND NAME OF LOOP OR SIDING WHERE FULLS ARE STORED.

- Fold along line. Place consignment notes inside.
- Either hand consignment notes to next driver, or send to weighbridge.
- Cane is to be shunted to full yard and crushed in order of lowest priority number.

FOLD
LOCO
STORED AT
NO. OF BINS
PRIORITY NO.

RUN

ISIS CENTRAL SUGAR MILL
BIN REPAIR
BIN No. _____

WHEELS/AXLES

STEELWORK

COUPLINGS

ALWAYS PULL THE RAKE WITH LOWEST PRIORITY

UNLESS TRAFFIC OFFICER ADVISES DIFFERENTLY



Postal address: PO
Chuders, Queensland
Telephone: 07 748
Fax: 07 41

NOTICE TO LOCOMOTIVE DRIVER, TRAFFIC OFFICERS AND CANE INSPECTORS

From today load limits will apply to locomotives operating on sections of track within the network hauling full bins. **These load limits must not be exceeded without the approval of a Traffic Officer.**

SECTION OF TRACK	D9	D18	D11	DH
Marawa points to Ruddy points	40	40	55	70
Smiths Loop to Kewbi	40	40	55	70
Johnson Bank to Yard	40	40	55	70
Mitcheburny points to Yard	40	40	55	70
Top Foley to Foley Roadway	40	40	55	70
Forestry Loop to Turpentine	40	40	55	70
Loeskows to Elliott river bridge	40	40	55	70
End Tolls to top Kellys	18	18	22	25
Barnes School to Top Kellys	30	30	45	50
Platts to McCosh	20	20	30	35
Maeykes to Main line points	25	25	30	30
Richies to Gilberts	25	25	35	35
Horton to Diamond	40	40	56	65
... and Katts to Seeleys	20	20	40	40
	40	40	56	65
			56	70
			25	25
			30	30

LOCO AND BRAKE WAGON SHEET REPORT

LOCO No. _____

BRAND/TYPE _____

INSPECTION AND MAINTENANCE

LOCO

WATER LEVEL	OK	ANGRY	YES	NO	WAGON
ENGINE OIL LEVEL					
CONVERTER OIL LEVEL					
FAN OIL LEVEL					
FUEL LEVEL					
GRAB					
LIGHTS					
SANDS					
ENGINE PERFORMANCE					
LOCO BRAKING					
WAGON BRAKING					
RADIO					

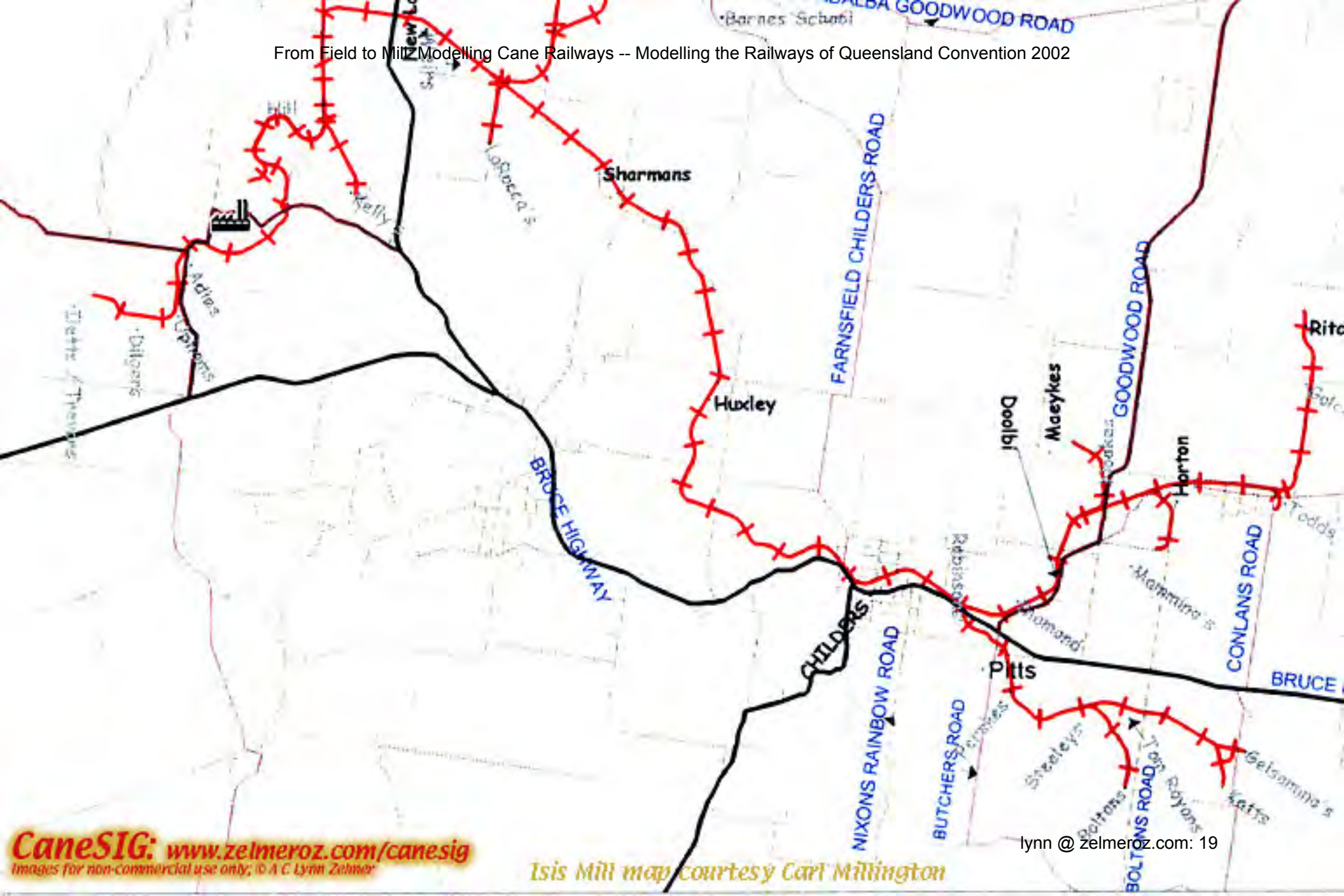
DEFECTS - ENDS - ACCIDENTS - COMPLAINTS

T. G. Cox
T G COX
CHIEF CANE INSPECTOR





From Field to Mill Modelling Cane Railways -- Modelling the Railways of Queensland Convention 2002





















From Field to Mill: Modelling Cane Railways -- Modelling the Railways of Queensland Convention 2002

Modelling Cane



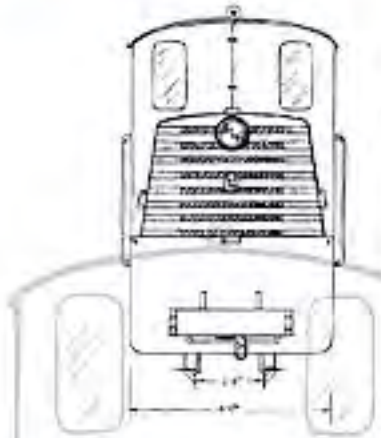
Modelling the Bundaberg Jenbach



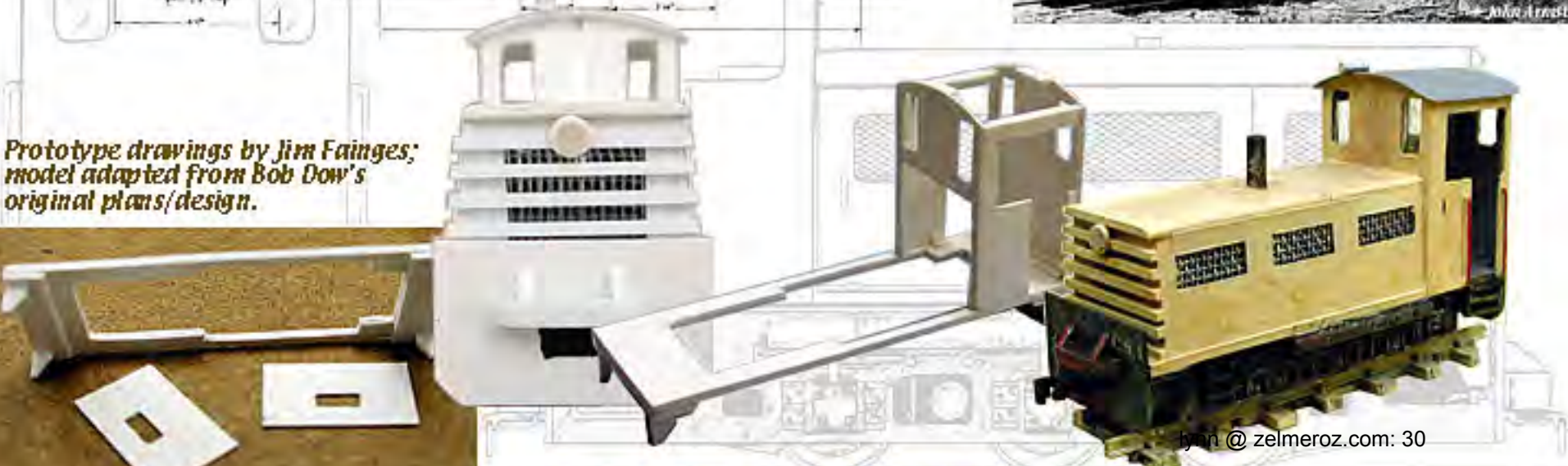
John Armstrong



John Armstrong



Prototype drawings by Jim Fainges; model adapted from Bob Dow's original plans/design.



jan @ zelmeroz.com: 30

Modelling Queensland's Cane Railways

From Field to Mill: Modelling Cane Railways - Modelling the Railways of Queensland Convention 2002

Brake Vans



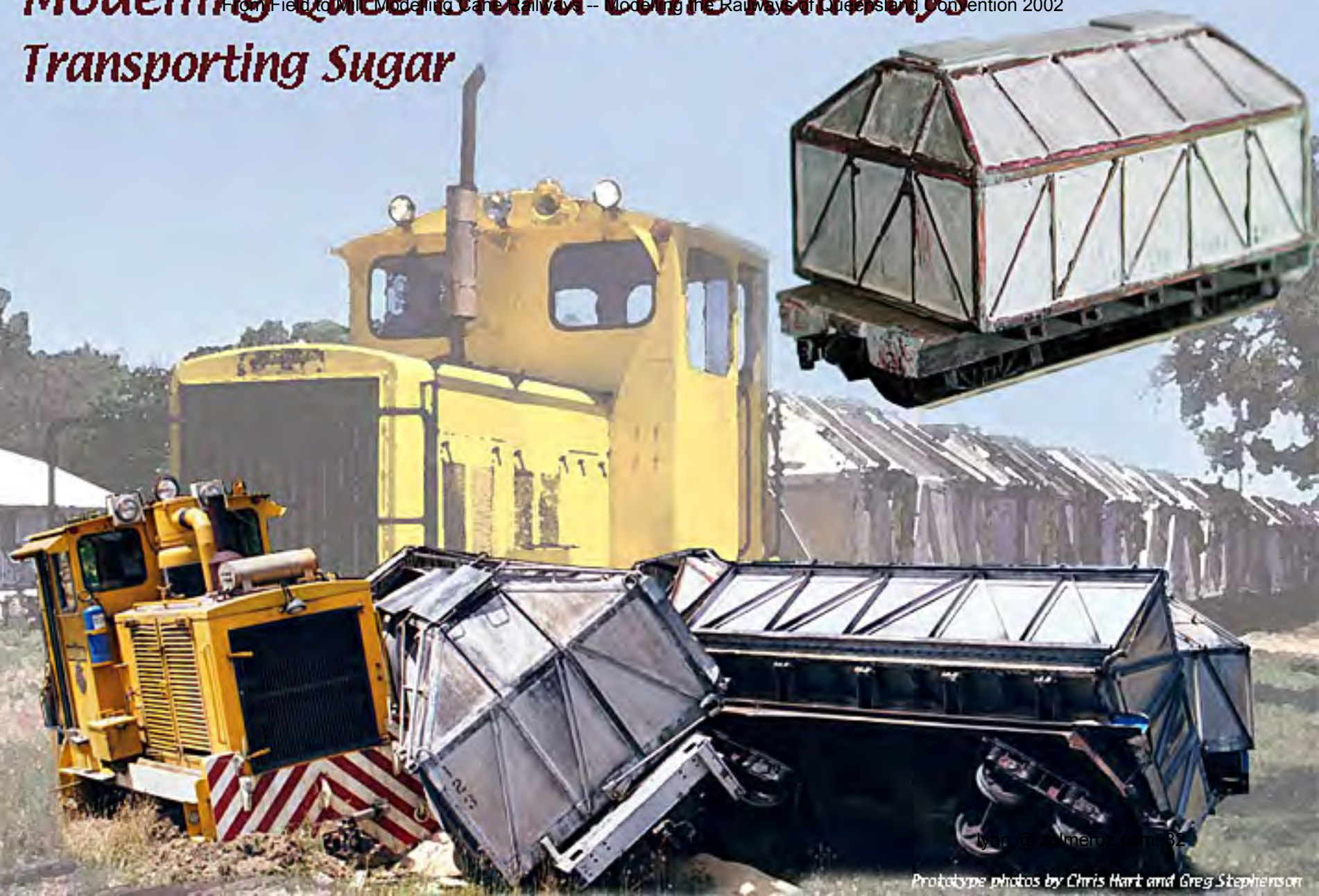
Cane bins on Queensland cane railways lack brakes, thus the need for radio-controlled brake vans, normally positioned at the end of the rake, to supplement loco brakes.



Modelling Queensland Cane Railways

From Field to Mill: Modelling Cane Railways -- Modelling the Railways of Queensland Convention 2002

Transporting Sugar



Copyright © 2002, Chris Hart

Prototype photos by Chris Hart and Greg Stephenson

Inspiration from the prototype: weed sprayer equipment at Bingera Mill, 1998

From Field to Mill: Modelling Cane Railways -- Modelling the Railways of Queensland Convention 2002



lynn @ zelmeroz.com: 33

Models and prototype photo used for artwork by Greg Stephenson

Modelling the Railways of Queensland 2002

From Field to Mill: Modelling Cane Railways -- Modelling the Railways of Queensland Convention 2002

Yes, mixed trains ran on some cane tramlines!



The Mapleton Tramway passenger van blueprint is adapted from a Maroochy Shire Council drawing in the Greg Stephenson collection. The H0n30 passenger van was imagined from it and crew/tool vans similar to the one in this 1997 Farleigh Mill photo by Greg Stephenson.

On30 in 7mm scale *by Brisbane* *modellers*



Cane in the Garden



*'Petrie', a coal-fired 16 mm scale Fowler for 32 mm gauge.
Built and photographed by Steve Malone.*



Tom's Model Tractors

Tom's Model Tractors

c/- Tom Badger

155 McLeod St

Condong NSW 2484

Ph (02) 66725035

e-mail: tomb@norex.com.au



2002-3 Project:

Microsoft Train Simulator

Cane loco and system

Computer and console

10-12 km track

4 & 6 ton bins

Small loco

*Support facilities (loco
sheds, etc.)*











































*Thank you for
the inspiration
and assistance...*

*Too many to name individually:
Modellers, photographers, historians,
mill managements and staff,
researchers, academics, librarians,
archivists, hobby suppliers, etc.*

Happy Modelling!

DRIVE SLOWLY

 <p>THIS IS A HARD HAT AREA SAFETY HELMETS MUST BE WORN</p>	<p>NO ENTRY</p> <p>AUTHORISED PERSONNEL ONLY</p>	 <p>SAFETY FOOTWEAR AREA FOOT PROTECTION MUST BE WORN</p>
---	---	--

ONE WAY 

HAZCHEM
IN EMERGENCY DIAL
POLICE 561200
FIRE BRIGADE 561100