If a separated cycleway is the answer, what was the question?
Cyclist escapes crash with truck

A cyclist has had a miracle escape after being involved in a collision with a truck this morning - the second accident involving a truck and a cyclist in Dunedin in the past week.

The crash happened about 8.35am on Strathallan St near Bunnings Warehouse in the harbourside Industrial area.

The male cyclist involved was said by ambulance officers to have only minor bumps and grazes.

However, his bicycle was wrecked by the impact and remained wedged underneath the front of the truck as police investigated the crash.

Traffic control was in place to deal with the build up of vehicles in the area.

The crash follows the death of cyclist Peter Wells who was involved in a collision with a logging truck outside Dunedin Railway Station last Monday.
Pedestrian hit by car dies

By Rosie Manins

Dunedin police are seeking witnesses to a fatal crash in Cumberland St yesterday in which a pedestrian was hit by a car.

David Norris Duff (79), of Dunedin, was crossing State Highway 1 at the intersection of Cumberland St North and St David St about 10.30am when he was hit by a southbound white Toyota sedan driven by a 67-year-old East Otago woman.

Mr Duff was taken to Dunedin Hospital with serious injuries and died in hospital "some time later", Acting Senior Sergeant Paul McLaughlan said.

The driver was not injured.

Road and weather conditions at the time were clear.

Acting Snr Sgt McLaughlan said it was understood Mr Duff was on a marked road crossing when he was hit.

"Police would like to speak with anybody who witnessed the incident, or was in the vicinity at the time it occurred, particularly any witnesses who saw the elderly gentleman crossing the road at the time of the crash," he said.
Top cyclist hurt in crash

New Zealand 24-hour mountain biking champion Erin Greene was the cyclist injured last night in a collision with a car taking a woman in labour to Dunedin Hospital.

Both Greene (26) and the pregnant woman were taken to hospital after the 5.45pm collision, at the corner of Howe and Great King Sts, Constable Kate Saxton, of Dunedin, said.

It is understood Greene has sustained pelvic injuries but it is unsure whether she requires surgery.

The pregnant woman was "OK", a hospital spokesman said.

The hospital would not release any further details, citing privacy concerns.

The accident comes at the worst possible time for Greene, who was hoping to travel to Canada in July for the world 24-hour mountain biking championships.
Two pedestrians were hit by cars in separate incidents in Dunedin yesterday evening.

A teenage girl was transported to Dunedin Hospital with moderate injuries after being hit by a car in Great King St about 5.40pm.

A St John spokesman said a man in his 70s was taken to Dunedin Hospital with moderate injuries after being hit by a car on Albany St about 5.50pm.
Cyclist killed in central Dunedin

A 54-year-old male cyclist has died in central Dunedin after a collision with a truck on Castle St outside Dunedin Railway Station this morning.

The victim, who appears to have been riding in the cycle lane, was involved in a collision with a logging truck at 7.45am near where the one-way route south meets Stuart St. He died at the scene of the crash.

Early indications were that the truck was turning into Castle St from Anzac Avenue, police said.
It’s all about safety

Table 1: Central city cyclist fatalities

<table>
<thead>
<tr>
<th>Date</th>
<th>Street</th>
<th>Location</th>
<th>Cause</th>
</tr>
</thead>
<tbody>
<tr>
<td>11 May 98</td>
<td>Great King Street</td>
<td>40 m north of Albany Street</td>
<td>Cyclist hit by opening car door</td>
</tr>
<tr>
<td>29 Jan 05</td>
<td>Great King Street</td>
<td>50 m north of Union Place</td>
<td>Motorist driving wrong way on one-way</td>
</tr>
<tr>
<td>14 Nov 11</td>
<td>Castle Street</td>
<td>intersection with Anzac Avenue</td>
<td>Truck driver failed to give way</td>
</tr>
<tr>
<td>19 Nov 12</td>
<td>Cumberland Street</td>
<td>50 m south of Frederick Street</td>
<td>Cyclist swerved in front of truck to avoid opening car door</td>
</tr>
</tbody>
</table>

Table 2: Total recorded crashes – Dunedin central area, 2003–2012

<table>
<thead>
<tr>
<th>Crash severity</th>
<th>Pedestrians</th>
<th>Cyclists</th>
<th>All other</th>
<th>Total recorded crashes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fatal</td>
<td>5</td>
<td>3</td>
<td>0</td>
<td>8</td>
</tr>
<tr>
<td>Serious</td>
<td>65</td>
<td>13</td>
<td>56</td>
<td>134</td>
</tr>
<tr>
<td>Sum</td>
<td>70</td>
<td>16</td>
<td>56</td>
<td>142</td>
</tr>
</tbody>
</table>

Table 3: Total recorded injuries – Dunedin central area, 2003–2012

<table>
<thead>
<tr>
<th>Crash severity</th>
<th>Pedestrians</th>
<th>Cyclists</th>
<th>All other</th>
<th>Total recorded casualties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fatal</td>
<td>5</td>
<td>3</td>
<td>0</td>
<td>8</td>
</tr>
<tr>
<td>Serious</td>
<td>65</td>
<td>13</td>
<td>67</td>
<td>145</td>
</tr>
<tr>
<td>Sum</td>
<td>70</td>
<td>16</td>
<td>67</td>
<td>153</td>
</tr>
</tbody>
</table>

Wednesday, 12 December 2012

Cyclist killed in Dunedin named

Police have named the cyclist who died after he was run over by a truck outside Dunedin Hospital yesterday.

He was Dr Li-Hong “Chris” He (34), a senior lecturer at the University of Otago school of dentistry.

Dr He was a naturalised New Zealander who lives behind a wife and two young children.

Dr He was hit by a truck on Cumberland St about 10am yesterday.

- **Cyclist killed: call to improve safety**

The truck driver was stopped by police and spoken to at Earnscleugh, north of Dunedin.

Police are investigating the possibility the door of a parked car had been opened just before the accident.
What was going wrong?
The interim treatment
Safe hit posts in conflict areas
Global search for safe
Why the One-way?

- Options reports
- Cater to all modes of transport
- User demand
- Safety issue
DBC Approach

• Detailed Business Case
  • Three options
  • Design target widths
  • NZTA Reviews and QA
  • DCC Connectivity
• Detailed Design Phase
  • Develop one clear option; and
• MSQA
Option 1a – Uni-directional with parking
Target audience

MAMIL'S

- Interested but Concerned
- No way No How

- Strong & Fearless
- Enthused & Confident
- MAMIL'S
Functionality for cyclists / motorists
Conclusions
• Lateral distance between cyclists ranges from 0.9 to 1.2m
• Volume does not affect speed
• Maximum calculated volume is 3100 cyclists per hour
• Range of track to be 1.8m-2.5m wide allows passing opportunities or 2-lane flow
• Maximum width of 3.05m to allow 3-lane flow
Parking

- Parking restrictions
- Footpath modifications
Accessway Design
Separator design
Separators cont.
Island Templates
Traffic signals
Low volume shared treatment
Bus stops
Floating Island Treatment
Bus border stops

- Bus stopping area: 15m overall length
- Minimum stop width: 1.5m
- Front to rear drop-off distance: 3.5m
- Property boundary: 2.1m
- Footpath: 3.5m
- Shelter
- Bus stop sign
Construction
What was the question?