

# CUTTING EDGE™

AUTUMN

2009

a look at architectural model making in new zealand

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## Another stadium completed!

After the successful completion of the Eden Park Rugby World Cup 2011 Stadium Model. THE MODEL WORKSHOP were engaged to build the 1:300 scale model for the proposed Otago Stadium overlooking the Dunedin harbour.

Commissioned by project managers Arrow International and the Carrisbrook Stadium Trust, the model gives the client, architects, local government officials, stadium critics, the Dunedin and wider New Zealand public a preview of the multi-purpose stadium.

The stadium is uniquely designed as a multi-purpose venue with the ability to host a wide range of sporting, entertainment and cultural events as well as meeting business and educational needs.

The stadium's roof uses the

same EFTE (Ethylene tetrafluoroethylene) material as the new Eden Park South Stand (featured in the Spring 2008 Cutting Edge Newsletter) and the Beijing "Water Cube" National Aquatics Center, allowing events to continue whatever the weather.

The model was required to be modular, with removable East and West Stand sections with the future ability to replace, removable 4th floor to demonstrate the flexibility of the corporate spaces, and a removable roof to allow viewers to see the ground space and seating layout.

The model was on public display at the Dunedin Art Gallery before being used at council meetings and a road show around the Otago Region.



Image showing the proposed Otago Stadium (above)  
Lighting helps illuminate the model and add to the design (below)

Scale: 1:300

Architect: HOK/ Jasmx

Client: Arrow International/  
Carrisbrook Stadium Trust

Model build time: 25 days



## Model Learning Centre | Article I: What is a Architectural Scale Model?

This is the first article from our Model Learning Centre. Today we look at what a Architectural Scale Model is.

Technically, a Architectural Scale Model is a three-dimensional representation of an object, building or structure having all parts in the same proportion of their true size.

BUT... there is more to a Architectural Scale Model than this.

An architectural scale model is a tool used by Architects, Developers, Project Managers, Governments and other organisations to study aspects of an architectural design or to communicate design ideas to clients, committees and the general public, which are not easily achieved by 3D visualisations or 2D drawings.

Early models were constructed of card, balsa wood, basswood and other wood materials –The

Model Workshop uses the latest laser cutting and 3D printing technology with durable plastics and colour fast paint work.

Using laser technology means The Model Workshop models can be completed faster, more accurately and with less labour hours, being more cost effective.

In our next article we will be looking at model types.



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## World Models: Shanghai 2020 - The Largest Scale Model in the World

Shanghai is one of the fastest growing and evolving cities in the world, but how do you show the public what it will look like in 10 years time in the most effective way? - build the entire city in scale of course.

With over 20 million people in its extended metropolitan area, Shanghai is China's most populated city. With an area of nearly 5,300 km<sup>2</sup> (2,046 sq mi), it is also one of the world's largest urban areas.

Located on the 3rd floor of the Shanghai Urban Planning Museum is an installation entitled "Shanghai 2020", a 100 square metre, to-scale model of what Shanghai is planned to look like in the year 2020.

The model features all existing buildings, as well as those that are planned for development prior to 2020 as envisioned by city planners.



Images showing the Shanghai 2020 model (above and left)

**Scale:** Unknown

**Architect:** Various

**Client:** City of Shanghai



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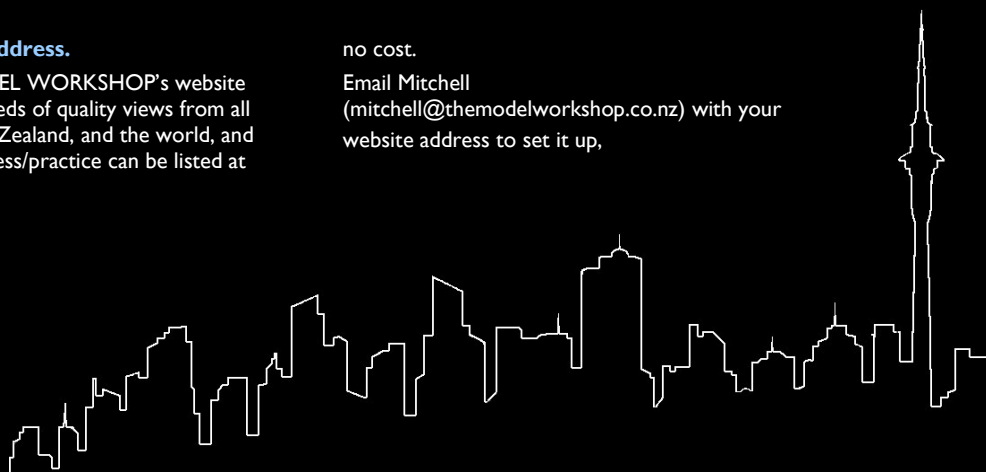
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[www.themodelworkshop.co.nz](http://www.themodelworkshop.co.nz) and want to add your business's

website address. **THE MODEL WORKSHOP's** website gets hundreds of quality views from all over New Zealand, and the world, and your business/practice can be listed at

no cost. Email Mitchell ([mitchell@themodelworkshop.co.nz](mailto:mitchell@themodelworkshop.co.nz)) with your website address to set it up,



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