

**Robin Wilson
Canada Cup
Trophy**



Robin Wilson, Royal Canadian Yacht Club



Arius3D digital model of Canada Cup

In 2005, the Royal Canadian Yacht Club from Toronto Canada approached Arius3D with a unique and challenging scanning project to scan its prized trophy called the "Canada Cup". This trophy is the Canadian equivalent to the famous America Cup which is given to yachting supremacy in the United States. The Canada Cup is part of a large silverware collection at the RCYC and is one of the oldest and most valuable collections in North America. The trophy was made by Tiffanys in New York in 1896 for an international yachting match between the Royal Canadian Yacht Club and the Chicago Yacht Club in 1896. The Canadian team won the match and as such the trophy was named the Canadian Cup.

One of the greatest concerns with the membership of the RCYC is the possibility of losing one of Canada's great yachting treasure if the clubhouse should be destroyed by fire or other natural disaster. The club began its search into digital scanning technologies that could accurately scan their collection and create a perfect digital model that could be used in the reproduction of the trophies. The Arius3D technology was a perfect solution.

The Arius3D color scanning technology was used to capture more than 24 million unique colored points from the surface of the trophy at a resolution of 100 microns in the X and Y axis, and 25 microns in the Z axis. Based on original NRC research, the Arius3D Foundation System is recognized as the only three-dimensional measurement system that simultaneously captures color and geometry from real world objects. The non-contact laser light measurement cannot harm objects or artifacts in any way. The Arius3D process is not affected by ambient light, so it provides the most accurate and precise image possible. Once an object's image is captured it can be redeployed in a multitude of resolutions and in a range of file formats.

For more information on the scanning on the Canada Cup visit the following link: <http://stream.arius3d.com/canadacup.asf>

Arius3D creates digital imaging solutions that enable organizations to research, present, and share unique physical objects in digital form.

The Arius3D three-dimensional color scanners and the Pointstream imaging software support wide ranging applications in culture and heritage, research, education, and entertainment.