**ABSTRACT**

‘A picture is worth a thousand words’ goes the ancient Chinese proverb. This has become a cliché in our society after the advent of inexpensive and simple techniques for producing pictures.

Computers have become a powerful medium for the rapid and economical production of pictures. There is virtually no area in which graphical displays cannot be used to some advantage. Graphics provide a natural means of communicating with the computer so they have become widespread. Computer Graphics find their applications in variousfields viz., User Interfaces, Computer Aided Design, Office Automation, Desktop Publishing, Plotting of Mathematical, Scientific or Industrial data, Simulation, Art, Presentations, Cartography etc. Here, we have tried to incorporate and present the working environment of a Suspension Bridge which is also known as “Bascule Bridge in 2D”.

The bascule bridge works with a counterweight that balances the span (leaf) while the upward swing provides clearance for boat traffic. Here, we have created a scene consisting of the Bascule Bridge which operates to allow a Boat to pass under it and an Aeroplane passing over it while a Bus waits for the leaf of the Bridge to swing back into its original position and then passes along the Bridge after the Boat and Aeroplane have sailed across. Thus, all the 3 modes of the traffic-Air, Water and Road are handled.

All the components have been clearly demarcated to cater even to a novice user.

An extensive user-interface system is provided through a popup menu with all the toggles attached to the right mouse button. We have even provided keyboard interface to start, stop motion and to exit the window.