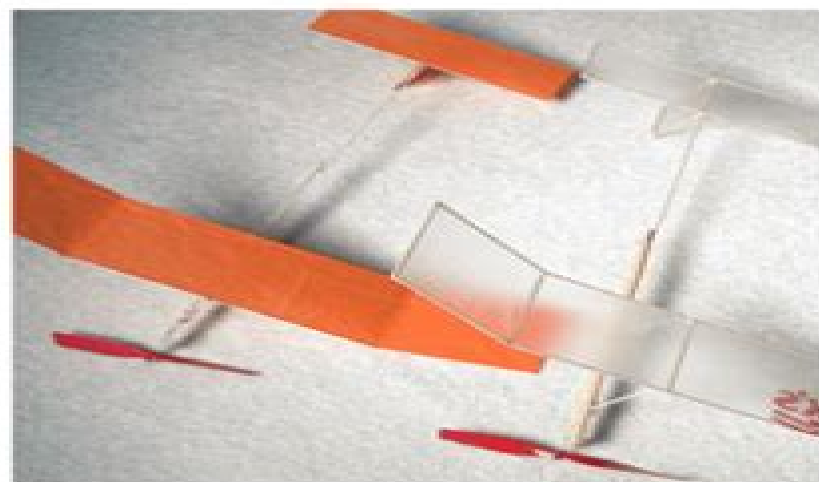


Science Olympiad Wright Stuff Event Construction Tips

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John T. Warren

It has been my observation that some teams that come to the competitions are well-prepared with excellent models and the knowledge to fly them to their utmost capability. On the other hand, some teams come to the competitions with airplanes built from kits that may have cost quite a bit of money and their models resemble those previously mentioned excellent ones, but they just do not fly. Their expectation is that it looks like an airplane so it will fly like an airplane. Nothing could be further from the truth. It is rare that a newly-constructed airplane (model or full-size) will fly at its best on the first flight. So, building the airplane the night before the competition and expecting a modicum of performance is quite unrealistic. Since the competition rules require a flight data log from a minimum of ten test flights for a full score, it is hoped that such behavior is discouraged.



The purpose of this article is to provide information that will lead the student to a successful airplane. That is an airplane that flies, an airplane that will allow the student to make observations and collect data necessary for scientific exploration that is the essence of the Science Olympiad program. The purpose is not to show the student how to build a winning airplane at his or her first effort. However, it is almost a certainty that those who do build this simple airplane will not do poorly in competitions. Along the way the student will learn what is necessary to compete with a model airplane at the highest levels of competition. It would be a mistake for the student to aim for the highest performance possible from the first effort. Attaining such performance requires expert knowledge in a variety of areas that are beyond the scope of this article.

There will be much written about construction of an airplane later on. However, because the success of an airplane project depends on more than just attaching part A to part B, the first part of this paper will deal with the problems that are bound to arise, some of them due to faulty construction and some due to a lack of basic aerodynamic knowledge. Construction of a flying model airplane is a world apart from construction using K'NEX- or LEGO brand toys.

The Wright Stuff category of airplanes fits into a class of competition models known as Indoor Freeflight aircraft. There are probably less than 200 people in the USA who consider Indoor Freeflight as their primary hobby. The total membership in the Academy of Model Aeronautics is close to 150,000. The great majority of that group has only a vague idea of what is involved and are awestruck upon seeing indoor aircraft in flight.

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