A summer of success for Team PrISUm

By Eric Christensen, Project Director

Team PrISUm was very busy working on the PrISUm Spectrum project this summer. The early weeks of the summer were spent raycing PrISUm Odyssey and finishing 5th in the Formul Sun Grand Prix 2002. Immediately after the rayce, Team PrISUm ventured across Iowa on SunRun 2002. We had a great time displaying the project at many schools, malls, and other community venues. With the rayce and SunRun behind us, the team spent the rest of the summer beginning the construction on PrISUm Spectrum. By using the summer to begin construction, the team is on track to finish the car well before the snow is off the ground in Iowa. While making great progress this summer, we missed one month with the sundial. We assure you that the publication will continue as normal with the upcoming September/October Issue.

Paint Contest!

The PrISUm Spectrum body needs a paint design. We are currently accepting ideas and offering a t-shirt to the creator of the winning design. Team PrISUm’s last two cars, PrISUm Odyssey and PrISUm Pheonix, both won awards for looking fabulous. We would like to continue this history of great looking cars and win another award with PrISUm Spectrum. For more details, visit our website (www.prism.iastate.edu) or see page 3.

To create the body of PrISUm Spectrum, we constructed large foam molds. In this picture, our top mold is being machined by Remmele Engineering. Remmele Engineering has gone out of their way to allow us access to their facilities and has also donated the machining of many other parts of PrISUm Spectrum.
The Gears Are Turning

By Nate Nelson and Ryan Haase
Co-Directors of Mechanical Systems

PrISUm SPECTRUM is moving along quite well. Over the past couple of months the mechanical team has been working very diligently in the design of all our systems, as well as in the construction and sanding on our molds. In early June the molds for PrISUm Spectrum's aerodynamic body were machined at Remmele Engineering. Then, from June to the end of July the team worked almost non-stop to sand, apply a surface agent and finish sand the molds so they were ready for our lay-up trip that took place at Northwest Airlines in August. The shell was constructed using Carbon Fiber donated by Boeing MR&D. Since that point the team has been working at connecting the two halves of the car together. During these busy times this summer the mechanical team was also able to finish designing other critical systems such as the frame with the help of John Deere, who ran all the FEA. The suspension, braking systems along with steering are all almost designed as well because of hard work put in by team members over the last couple of months. We would also like to thank all of the following companies that have contributed to helping the project accomplish everything that happened this summer: Airtech, Boeing MR&D, Composites One, General Sealants, Loctite, NWA, PPG, and Remmele Engineering.

From computer to reality

A look at the construction of PrISUm Spectrum’s Body

The carbon fiber body of PrISUm Spectrum was created from a foam mold. Mold construction began with intricately designed wooden bases.

We carefully indexed and sorted all of our foam blocks so that we were able to glue the foam on to the mold bases in only two days.

Test fitting the foam before gluing it was essential because it allowed us to find air gaps and misalignments between blocks.

All of the blocks were glued together using a string adhesive that we spread to thoroughly cover the entire surface of all joints.
Once the foam was glued onto the wooden bases, we bolted the mold onto a large steel frame. This frame was used to hold the molds in the mill as well as provide us with an easy way to move the molds.

The mill that was used to machine the shape of our car was enormous!

The mill made several passes over the mold. The initial pass, as shown in the picture, removes a large quantity of foam. Subsequent passes remove the foam in smaller increments.

After the molds were machined, we began the surfacing process. The molds were eventually sanded mirror smooth with 1000 grit sandpaper.

Formula Sun Grand Prix 2002
By Eric Christensen, Director

Team PrISU took 5th place in Formula Sun Grand Prix 2002. Many of the team members who participated in this race were new to the team. This made the race a learning experience for everyone.

Day 0 - Sunday
We drove down to Topeka, Kansas on Sunday night, and stayed at a campground a few miles from the Heartland Park racetrack.

Day 1 - Monday
The team rolled out of the campsite while it was still dark out, and was one of the first teams to arrive at the race track. After staking out our pit and camping area, the team registered and began to prepare for scrutineering. The team passed all scrutineering stations for the day and had a nice relaxing evening.

Day 2 - Tuesday
We passed the last part of scrutineering with flying colors and began running practice laps in the afternoon. The practice laps gave our drivers a good feel for the course and gave the many new
team members their first taste of solar raycing in a track environment. At 5pm, the team participated in a sprint which was used to determine the starting lineup of the rayce.

**Day 3 - Wednesday**
Team PrISUm started the first day of raycing in 9th position. We quickly moved up to fifth position, where we stayed for the rest of the rayce. Despite an ominous forecast, the weather was warm and sunny.

**Day 4 - Thursday**
As morning approached, Wednesday’s nice weather disappeared. The team was awoken at 3:30 am by strong winds and heavy rains which blew over two of the tents the team was sleeping in. The weather was still rainy as PrISUm Odyssey began the second day of raycing, but it cleared by noon. In attachments in time to resume raycing that day, so the team did the next best thing. We worked hard and, in less than 15 minutes, had the car requalified to rayce without the solar array. While our laps without the solar array did not apply to our final lap count, it was a great exercise in teamwork and proved that nothing can stop Team PrISUm.

**Day 5 - Friday**
The 3rd and last day of solar raycing began much like the second, with clouds and rain. The morning went just as planned, and the team had no problems. As the weather cleared and the afternoon arrived, a new noise appeared. While tracking the source of the noise, the team stored up a large amount of energy in the battery pack. With only a few hours left in the rayce, the team stepped up the speed in an attempt to consume the remainder of the energy in the battery pack. With only an hour left in the rayce, one of our drivers spun the car out. Spinouts are common in track raycing, and the team was not initially concerned. Before putting the car back out on the track, we performed an inspection and found that two of the four attachments that hold the solar array on to the chassis had been damaged. Without these attachments, the solar array will fall off of the chassis. There was no way to repair the

**SunRun 2002 a success!**
*By Eric Christensen, Director*

Immediately after Formula Sun Grand Prix, Team PrISUm embarked on SunRun 2002. SunRun is an event that gives the team an opportunity to display our project and support solar energy. The team visited venues such as schools, shopping malls, museums...
and businesses. The SunRun event takes place every other summer. If you are interested in having Team PrISUm travel to your city on the next SunRun, please contact us!

Pictures from SunRun 2002

Above: Team members Ross Fischer and Nathan Nelson explaining PrISUm Odyssey

Above: Team PrISUm’s display at Merle Hay Mall in Des Moines.

Left: The entrance to the Science Station in Cedar Rapids was slightly too narrow.

Below: Reporters gather around PrISUm Odyssey on the first day of Sun-Run

Above: Team member Jake Strait teaching Muscatine students about solar energy.

Below: Team member Eric Christensen answering questions from Cedar Rapids students
Team PrISUm
2002-2003 Paint Contest

We need your help! Our newest car, PrISUm Spectrum, needs a paint design! PrISUm Odyssey won the Best Artistic Award and our goal is to do even better on Spectrum! Just fill in the white area with your ideas and send us the design, either by email or regular mail. The dark shaded area on the top of the car will be covered with solar cells. The winner of the design will also receive a free T-shirt!

Rules and Regulations:
Entries must be submitted by November 1st to paint@prisum.org or:

Team PrISUm
Attn: Paint Design
110 Marston Hall
Ames IA 50011.

Please, no rainbows, no flames (as the central part of the design), and no inappropriate content. All designs must say Iowa State University on the side (in big letters) and must say PrISUm Spectrum somewhere in the design. All designs are subject to our interpretation.

Electronic images of PrISUm Spectrum are available on our website (www.prisum.iastate.edu).
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