

## TEAM UPDATE



After returning from the 2004 Formula SAE Competition in Detroit, Michigan, the team has gained a greater understanding of how the competition works and in what direction we must steer our team goals for next year. The extensive amount of driver training done prior to the competition this year helped us rank higher than last year in almost every dynamic event. All of the newer team members gained valuable experience at the competition while learning from the senior members, which has played a huge role in preparing them for future events. Returning from the competition, we have also gained a better idea of what modifications must be made in design and fabrication of the car in order to continue to improve our ranking in the future.



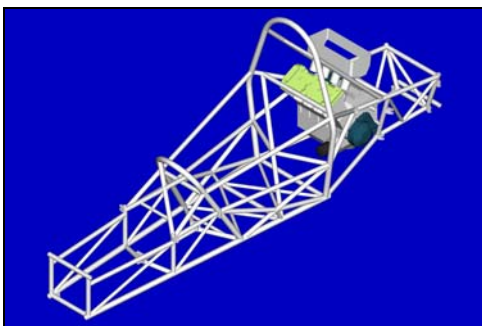
On June 1<sup>st</sup>, 2004, Jovan Ceklaj was appointed the new team leader of Formula UBC. His commitment to the team this past year, as well as his automotive expertise and level of maturity were key deciding factors in this appointment. All team members look forward to making the best possible use of his leadership in the years to come.



The 2004 Formula Car was displayed at Key West Ford in New Westminister from June 26<sup>th</sup> to July 4<sup>th</sup>, with several of our team members accompanying the display on weekends to answer questions about the car. It will be displayed next at The Molson Indy Vancouver at Science World's Technology Showcase on July 23<sup>rd</sup>, 24<sup>th</sup> and 25<sup>th</sup>, 2004. The Show hours are tentatively 8:00am to 6:00pm on all days.



This upcoming year, we hope to implement larger design modifications to several parts of the formula car. Emphasis will be placed on improving the design of the chassis and using more state-of-the-art electronic instruments to improve the accuracy of meters and sensors on various components of the car. More detailed calculations during the design stage and tests following construction will be performed to verify proper performance of the car. We are currently in the process of redesigning the chassis to minimize weight and make it easier to maintain, while still meeting minimal safety requirements. We hope to have this finished by September 2004 in order to ensure adequate time for fabrication.



## **2004 COMPETITION RESULTS**

Formula UBC placed 60<sup>th</sup> out of 140 teams  
and hopes to place in top 40 next year

### STATIC EVENTS

<b>Presentation</b> <b>50<sup>th</sup></b>	<ul style="list-style-type: none"> <li>• The judges enjoyed our presentation and felt it was laid out very well</li> <li>• They felt we covered all the necessary topics to their satisfaction/liking</li> <li>• Addition of a short video clip highlighting the vehicle would improve results</li> </ul>
<b>Design</b> <b>79<sup>th</sup></b>	<ul style="list-style-type: none"> <li>• Good build quality of vehicle</li> <li>• Good engine dynamometer mapping and calibration</li> <li>• Nice auto shifting and innovative design on dash</li> <li>• Need to improve our motion ratios</li> <li>• Need to have more theory-to-actual performance data</li> </ul>
<b>Cost</b> <b>48<sup>th</sup></b>	<ul style="list-style-type: none"> <li>• We received a high score for our cost report (Bill of Materials) which was evaluated for content, accuracy and organization</li> <li>• Overall cost of vehicle in comparison to our competitors was very good</li> <li>• We were one of the few teams to accurately answer all of the judges' manufacturing process and production questions</li> </ul>

### DYNAMIC EVENTS

<b>Acceleration</b> <b>30<sup>th</sup></b>	<b>INCREASED 29 PLACES</b>
	<ul style="list-style-type: none"> <li>• Successfully completed all 4 runs on the dry track</li> <li>• Car completed event in 0.3 seconds less than winner's time</li> </ul>
<b>Skidpad</b> <b>52<sup>nd</sup></b>	<b>INCREASED 4 PLACES</b>
	<ul style="list-style-type: none"> <li>• Successfully completed all 4 runs</li> <li>• Fuel problems prevented more competitive driving</li> </ul>
<b>Autocross</b> <b>34<sup>th</sup></b>	<b>INCREASED 34 PLACES</b>
	<ul style="list-style-type: none"> <li>• Successfully completed all 4 runs</li> <li>• Spark plug wire problems slowed driver's times significantly</li> </ul>
<b>Fuel/Endurance</b> <b>41<sup>st</sup></b>	<b>COMPLETED 19 OF APPROXIMATELY 20 LAPS</b>
	<ul style="list-style-type: none"> <li>• Ran 19 successful laps before spark plug wires burned out and car was taken off the course</li> </ul>



**PRESS RELEASE – July 2004**

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