Goals:
To provide heating to the pool facility and surrounding spaces of Keating Sport Facility through the use of solar thermal collectors placed in the immediate area.

Organization/Tasks:

<table>
<thead>
<tr>
<th>Mechanical Team</th>
<th>Analysis Team</th>
<th>Enclosure Team</th>
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</thead>
<tbody>
<tr>
<td>Jaesun Jeong</td>
<td>Sriram Mahadevan</td>
<td>Justin Odom</td>
</tr>
<tr>
<td>Joe Sutalo</td>
<td>Sean Huber</td>
<td>Chris Tokarz</td>
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<tr>
<td>Kristen Kelley</td>
<td>Rajiv Shah</td>
<td>Harsha Pannala</td>
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</tbody>
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Faculty Mentor/advisors
Advisor-Nancy Hamill-Governale

Critical Issues:
Though the workers of the group seem to be completing their work in a timely manner the progress has not been as quick as originally predicted. This is due to a lack of cooperation from manufacturers of the needed equipment. Though several emails have been sent to multitude of companies the response has been slow and incomplete. The lack of getting hard factual information from several sources brings into question the validity of our analysis. Though our facts do have a source it would be better to check them against several other companies for consistency.

Conclusions:
This IPRO has progressed remarkably compared to previous years. Though currently unable to fully support the applications reviewed in this IPRO, we have designed an appropriate and practical prototype/blue print to provide heating to the pool facility and surrounding spaces of Keating Sport Facility through the use of solar thermal collectors placed in the immediate area. Solar thermal is clearly a worthwhile solution for reducing dependence on fossil fuels.

Next Steps:
In order to further the evolution of both the Keating Hall case study and the Machinery Hall experiment, additional recommendations must be taken into account. An upkeep and monitoring plan must be contrived for the duration of the projects.

Further research and experimentation with the developing technologies of different solar panels should be incorporated in future solar energy IPRO’s.