

## **Introduction**

Global Warming is a key topic in political and social discussions around the world. For this reason, IPRO 331: Global Warming: Study, Information Design and Community Outreach were created to inform the public about the facts of Global Warming.

## **Background**

The topic of Global Warming has been around for a long time. Two years ago, George Crabtree of the United States Department of Energy gave a lecture at the Illinois Institute of Technology about tapping into the potential of radiant energy from the sun. Around this time, Professors Peter Lykos and Michael Gosz were giving an eight lecture series on Global Warming at Western Springs. This series combined the principles of science and engineering to give an informative analysis and report.

Another source for this topic was the release of the fourth report by the IPCC (Intergovernmental Panel on Climate Change) on February 2, 2007. This release, along with the film "An Inconvenient Truth", caused awareness about the topic to grow. More people are now realizing that human activity could have a significant effect on the global environment. Due to this realization, the public desires to be able to discern fact from fiction and understand what they can do to improve our current situation.

## **Purpose**

The purpose of IPRO 331: Global Warming: Study, Information Design and Community Outreach is to gather information about the current issue of Global Warming and to create a series of presentations based on the facts of the current situation. The objective of the presentations will be to present the solid scientific data of the situation, we will not be presenting on the business or political views of the situation. Our second objective is to actually conduct the outreach by giving our presentation to high schools, universities, and other community centers in the Chicago area. Our last objective is to establish a solid base for the next IPRO team to follow and continue what we have started.

## **Research Methodology**

Each group was designated a subtopic on global warming which was then divided up and each member was responsible for finding research on the subject. Naturally the team member's explored different material of the assigned topic due to personal interest.

## **Assignments**

### **A. Task Assignments**

The way we assigned our tasks for the IPRO was to assign everyone the same tasks to be done at the same time. Mostly because everybody was doing the same style of work, we were all researching our respective topics and we were all putting together Power Point

presentations. Later in the semester we designated responsibilities for the final report and IPRO presentations.

### B. Designation of Roles

We worked well together as a team and our leaders did a great job in their respective leadership roles. We did not feel, and still do not feel, that there was a need to rethink and replace certain leaders that were lacking. Because of this, the leaders of our groups remain unchanged since the start of this IPRO project.

### C. Team Organization

When we began this IPRO the only organization we had were individual assignments for general research. Once we became involved with our research, we designated four sub-groups that were popular amongst media and the public. From the table below you can see how the sub-groups formed the specific research topics.

<b>Sub Group</b>	<b>Research Topic</b>	<b>Student</b>
1	CO2	Amber Juilfs
		Suraj Chandrasekar
		Ravi Iyengar
2	Polar Region	Rohan Amin
		Yosra Shaaban
3	Bio Fuels	Thomas Kennedy
		Harhill Parikh
4	Solar Energy	Trevor Dickson
		Lexie Manke
		Natalie Mikosz

### D. Presentation Organization

When the time came to put together the presentations, the class then divided into two research groups. These groups were determined by the availability of each team. The whole IPRO team created a set of introduction presentation slides to help educate the audience of what the teams were there to accomplish. Then each group created another set of presentation slides for each individual topic.

<b>Name</b>	<b>Major</b>	<b>Year</b>	<b>Role</b>
Rohan Amin	MBB	3 <sup>rd</sup>	Polar Region Subgroup Leader
Suraj Chandrasekar	BME	4 <sup>th</sup>	Outreach Leader CO2 Subgroup
Trevor Dickson	Architecture	4 <sup>th</sup>	Solar Energy Subgroup
Ravi Iyengar	Biochemistry	4 <sup>th</sup>	Secretary/Team Minutes CO2 Subgroup Leader
Amber Juilfs	Chemistry	3 <sup>rd</sup>	CO2 Subgroup Time Keeper
Thomas Kennedy	Mechanical	4 <sup>th</sup>	IPRO Liaison

			Biofuels Subgroup
Lexie Manke	Architecture	4 <sup>th</sup>	Solar Energy Subgroup
Natalie Mikosz	Architecture	4 <sup>th</sup>	Solar Energy Subgroup Leader
Harshill Parikh	Electrical	4th	Outreach Biofuels Subgroup Leader
Yosra Shaaban	Biology	2nd	Polar Region Subgroup Master Schedule Maker

## **Obstacles**

Several obstacles and barriers needed to be overcome to guarantee the success of this IPRO. Contacting schools and other community centers and ensuring that we could present was one of the first obstacles. A major factor of the IPRO was community outreach, so presenting was very important. This obstacle was first overcome when the team heard back from The Rotary Club, and then the University of Chicago. Two groups presented their research and received very beneficial feedback due to the audience's response at the University of Chicago.

Finding articles and being able to differentiate between fact and fiction was an ongoing obstacle. It had also been a hindrance to be able to find reliable sources of information off of which we could base our research and later the presentation itself. We found that the best sources came straight from government sites, which formed the most material of our presentation.

Obstacles for future members are the same as listed above. They have to be sure to develop their contacts early to build a relationship. The research for this IPRO is continuing as new research is always being published and scrutinized.

## **Results**

### **Recommendations**

### **References**

### **Acknowledgements**

Steven Kwon for his participation in helping our team construct a website to help further pursue our outreach.

Carol DeBiak for her participation and being a great tool in providing the team with up-to-date research on global warming.

# **Final Report**

## **I PRO 331**

Global Warming: Study, Information Design and Community Outreach

Spring 2008

**Instructor:** Peter Lykos

**In consultation with Carol DeBiak**

### **I PRO Team**

Rohan Amin  
Suraj Chandraseker  
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Thomas Kennedy  
Lexie Manke  
Natalie Mikosz  
Harshill Parikh  
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