

# **I PRO 331**

## Global Warming and Community Outreach Midterm Report

Dr. Peter Lykos (*Faculty Advisor*)  
Carol DeBiak (*Science & Engineering Librarian*)

### **Team Members**

Rohan Amin  
Suraj Chandrasekar  
Trevor Dickson  
Ravi Iyengar  
Amber Juilfs  
Thomas Kennedy  
Lexie Manke  
Natalie Mikosz  
Harshill Parikh  
Yosra Shaaban

**Illinois Institute of Technology**

## **1.0. Revised Objectives**

No changes in our objectives have been made because we feel that they are still appropriate and useful. Our original objectives are as follows:

1. Evaluate and incorporate previous presentation feedback into new methods of addressing the scientific aspect of global warming. This primarily includes subdividing the issue into four major aspects that contribute to this effect.
2. Present material to a larger and more diverse audiences, including schools, community centers, libraries, non-profit organizations, and other possibilities.
3. Focus on solid, scientific data from credible sources that define why and how global warming is occurring, rather than discussing the politics and economics that surround the issue.
4. Create a platform for this IPRO to continue in the future, using resources and feedback received from the current semester.

## **2.0. Results to Date**

1. First and foremost, we re-evaluated and re-strategized the previous semester's work, forming four separate subtopics in order to address the preceding semester's issue of time constraint during presentations. This completes our first objective.
2. We have nearly completed four separate Power Point presentations and scripts pertaining to each subtopic.
3. One presentation has been made thus far by the Biofuels team to the Chicago Rotary Club. From this, we gained feedback, and can again refine our work. This was the first step to completing our second objective.
4. The current results begin to address our goal of community outreach.

## **3.0. Revised Task/Event Schedule**

As stated previously, the goal of this IPRO is to present to larger and more diverse audiences than last semester; as well as breaking up the focus into four separate subtopics. In order to successfully make progress, several project tasks have been set. The tasks include:

- 1) Defining the problem
- 2) Plan to solve the problem
- 3) Testing the solution
- 4) Analyzing the test results

There have been no changes made to the project tasks since the project plan has been completed. The problem has already been defined, and a potential solution has been created. In the near future, the solution (the presentations) will be tested and the results will be analyzed. If successful, the presentations will educate any potential audience in our community about the various facts on global warming, as well as specific subtopics on the issue.

As stated in the project plan, the following is the list of tasks related to the IPRO content as well as the IPRO deliverables:

- ✓ Feb. 5 – March 15 → create and perfect presentations (completed)
- ✓ Feb. 19 → First drafts of presentation material due (completed)
- ✓ Feb. 22 → Project plan due (completed)
- ✓ March 7 → Code of Ethics Due (completed)
- ✓ March 13 → IPRO midterm oral presentation (completed)
- ✓ March 14 → Midterm written report due (completed)
- ✓ March 15 – March 23 → Spring Break
- ✓ March 25 → Finalize presentation locations (time, date, etc.)
- ✓ March 24 – March 28 → Finalize presentations
  - Present to rest of IPRO group
- ✓ April 1 → Start presentations
- ✓ April 7 → Begin work on IPRO Day poster and presentation
  - One member from each subgroup
- ✓ April 18 → Meeting minutes due
- ✓ April 25 → Last day to turn in presentation/abstract for IPRO Day
- ✓ May 2 → IPRO Day

None of the deadlines have been changed from the project plan. The general presentation outline as well as the midterm oral presentation has already been completed.

The work-load has been divided amongst the individual members of the IPRO. Several members of the team are involved in more tasks than just researching and preparing slides for their own topic. The first task of breaking up the topic of Global Warming into four subtopics was completed by Professor Lykos and the class. Professor Lykos decided on the four subtopics, and we as a class split ourselves into the resulting groups. Each individual member of the IPRO is responsible for a portion of their subgroup's presentation. The solution will be tested by whoever presents, and the results will be analyzed by the entire group. Besides for attending IPRO meetings, each member approximately spends about 3-4 hours a week on research. In addition, certain members spend extra hours in completing additional activities such as preparing a midterm presentation, contacting schools, preparing meeting minutes and so forth.

The timeline has not changed from when the project plan was created. This is because all the tasks have been well defined and are being completed on schedule. One of our presentations was already made, which was well ahead of our schedule.

#### 4.0. Changes in Task Assignments, Designation of Roles and Team Organization

##### 1) Task Assignments

The way that we have assigned our tasks at the start of this IPRO was to assign everyone the same tasks to be done at the same time. Everyone is completing the same type of work: we're all researching our respective subtopics, and then putting together a presentation pertaining to that particular subtopic. This is how it was done initially, and this is how it still is today.

##### 2) Designation of Roles

We have been working well together as a team and our leaders are doing well in their respective leadership roles. We did not feel, and still do not feel, that there is a need to rethink and replace certain leaders that are lacking. Because of this, the leaders of our group remain unchanged since the start of this IPRO project.

##### 3) Team Organization

When we began this IPRO this semester, we divided up into four subgroups, which remain unchanged from our project plan. Also, several secondary roles were named, which remain unchanged from the project plan as well. They are as follows:

Name	Major	Year	Role
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

### **5.0. Barriers and Obstacles**

Several obstacles and barriers needed to be overcome to guarantee the success of this IPRO. Contacting and ensuring that we could present was one of the first obstacles. A major factor of this IPRO is community outreach, so presenting is very important. Finding articles and being able to differentiate between fact and fiction is an ongoing obstacle. It has also been a hindrance to be able to find reliable sources of information off of which we can base our research and later the presentation itself.

### **6.0. Code of Ethics (Attached as a Separate Document)**

### **7.0. Midterm Presentation Slides (Attached as a Separate Document)**