

I P R O

It takes a team!

INTERPROFESSIONAL PROJECTS PROGRAM

Project Plan

I PRO 331

Global Warming & Community Outreach

Dr. Peter Lykos (Faculty Advisor)

Carol DeBiak (Science and Engineering Librarian)

Illinois Institute of Technology

Fall 2010

Table of Contents

Team Information	3
Background	4
Purposes and Objectives	5
Methodology/ Brainstorming.....	6
Expected Results.....	7
Team Structure.....	7
Team Values	8
Budget.....	8
Tasks & Milestones Events.....	9

I. Team Information

Below is the team roster presented in detail with major and year, contact information, individuals' strengths and weaknesses along with our expectations about the upcoming semester.

IPRO 331 TEAM INFORMATION						
<u>Name</u>	<u>Year/Major</u>	<u>Phone Number</u>	<u>Email Address</u>	<u>Individual Strengths</u>	<u>Knowledge/ Skills to Develop</u>	<u>Overall Expectations</u>
Panagiotis Bakos	4th Year Architectural Engineer	██████████	pbakos@iit.edu / bakospan@gmail.com	Organized, Communicative, Patient and always on time	Improve language skills	Acquire significant knowledge about global warming and get to know my colleagues better
Antonio Gutierrez	4th Year Architecture	██████████	agutier3@iit.edu	Proficient in MS Office, Adobe Photoshop, Illustrator, In Design, Organized, Responsible, Bilingual in Spanish and English	Learn more about professional ethics when working in a group	Learn more about global warming
Edira Hoxha		██████████	ehoxha@iit.edu			
Bushra Hussaini	4th Year Biochemistry	██████████	bhussai2@iit.edu	Proficient in MS Office, Organized, Motivated to Complete Tasks	Improve presenting skills, Learn more about effects of global warming	Acquire significant knowledge about global warming and share this information with others
Jaeha Jun	4th Year MMAE	██████████	jjun5@iit.edu	Good in using software, MS Office and Adobe products, Responsible, Hard-working	Learn presentation skills	Acquire knowledge of global warming
Taimoor Khan	3rd Year MMAE	██████████	tkhan6@iit.edu	Strong leadership skills, Responsible	Learn more about interactive ways to present information	Research solutions and consequences of global warming
Matt Pinto	5th Year Architecture	██████████	mpinto1@iit.edu	MS Office, Hard worker, Organized	Improve technical knowledge about global warming	Reach out to as many as possible about issues in global warming
Talha Qureshi	3rd Year Biochemistry	██████████	tquresh1@iit.edu	Leadership skills, Communication skills, Organized	Presenting to a younger audience	Gain knowledge about climate change
Nicole Valio	2nd Year Biology	██████████	nvalio@iit.edu	Good organization and documentation skills	Experience with team interaction, communication with teammates and an audience	Learn about the consequences and solutions of climate change and how to present this information to the community

II. Background

a.) IPRO 331 Global Warming is a self-supported group. Its purpose is to formally aware the public about the issues and facts of Global warming.

b.) In the beginning of the 20th century the discovery of Global Warming, mostly due to the research and findings of German Scientist Guy Stewart Callendar. Scientist Stewart was also the first scientist to research how burning fuels create carbon dioxide, which contributes to the greenhouse effect. Later during the 20th century The U.S. weather Bureau's Division of Climate and Crop Weather announced that in fact the earth's temperature was increasing. In 2007 the IPCC announced that the global temperature would increase by 4 C in 2099, this would result in higher sea levels by approximately .6 meters. If the sea level would increase by that much some of the earth's agricultural areas might disappear. Despite of all the proof even in the 21st century the skeptics have claim that Global warming is nothing but a myth and other individuals are unaware of what they can do to help decrease the impacts of Global warming.

c.) The main issue the group will have to face is the ignorance of the majority of the public about Global warming. Also as a group the presentation giving to the public would focus on the latest technology to decrease and prevent Global Warming, the presentation itself, would be presented in very common and simple ways to keep the information accessible to anyone.

d.) IPRO 331 was Founded in the fall of 2007 by Professor Lykos and Carol Debiak from Galvin Library as they saw the need for an IPRO that would introduce IIT students to the need to learn and inform the importance of the awareness of Global Warming. In the last years organization have obtain data to decrease the impact of Global Warming, but have unsuccessfully presented the information to the public. The purpose of IPRO 331 is to inform the public in a simple and clear way organizing the data and presenting it to the average individual. A 50 minute presentation has been prepared and modified every semester since the IPRO began, the presentation has been giving to high school students, and the latest semesters have created brochures, posters, and are constantly finding new ways to present the data to the public.

e.) The only ethical issue surrounding IPRO 331 is our obligation to inform the community about the serious and permanent consequences that climate change could have on our world.

f.) As informed world citizens, the students of IPRO 331 feel that we have a responsibility to spread awareness to the public concerning the severity of global warming. If nothing is done to change the ways of our society, global warming has the potential to become a very serious, costly issue. Temperatures will continue to rise, more and more species will become endangered or extinct, flooding will become a major crisis, and starvation due to destroyed agricultural land will occur. The worst case scenario is temperatures rising six degrees Celsius, conditions under which the Intergovernmental Panel on Climate Change

(IPCC) predicts that few humans would survive. Although it is unlikely that our planet ever reaches this extreme, the longer it takes us to react, the more damage is being done and the more expensive it becomes to fix it.

g) This IPRO will be broken down into sub-groups with different research themes. Each group will collect information about the causes, effects, and solutions of climate change as they relate to the group's specific topic. The past presentations from spring 2009 IPRO 331 will be revised and expanded upon to include information about satellites and Greenland. We will develop two separate presentations geared toward different-aged audiences. Surveys will be presented at the end of the presentations to assess their success in educating the community about climate change. We will then adjust and improve our presentations accordingly. A free Wikipedia encyclopedia will be created so that IIT students as well as the rest of the community will have access to updated information on climate change.

h) A few sources will be used to guide us in our climate change research. These sources include: the 2007 IPCC report on climate change, an article from *Chemical and Engineering News* called *Global Warming and Climate Change* by Stephen K. Ritter, *Power Trip* by Amanda Little, *Connecting the Dots to Future Electric Power* by Edward Bair, articles from the spring 2010 *Imaging Notes*, as well as an edition of *National Geographic* on Greenland.

III. Purposes and Objectives

Team's Mission: To spread awareness of global warming to a large and diverse community of students, faculty, and senior citizens through education about the cause, impact, and potential responses to the issue of climate change.

- Objectives
 - a. Build off previous IPRO presentations while adding new ideas and solutions to inform and educate the community about global warming
 - b. Expand presentation to larger and more diverse audiences in order to create widespread awareness about global warming
 - c. Use previous research and presentations but also take a more systematic approach when creating presentations so the presentations are geared toward the specific age group of people being presented to
 - d. Integrate interactive displays during presentations, possibly brief videos
 - e. Create methods for evaluation of presentation such as surveys and/or questionnaires

- f. Create an IPRO 331 / Global Warming online resource. Enhance online resource with updated research and include discussions pertaining to concerns about global warming. Focus on increasing awareness and convenience of such a resource so anyone can easily access information on the issue
- g. Create a more interactive presentation allowing audience members have the opportunity to participate in discussions or activities where they can receive a token for their input
- h. Introduce updated ideas of geo-engineering including the impact satellite usage for climate control purposes
- i. Research and present new climate obstacles faced in Greenland
- j. Discuss claims by skeptics of global warming
- k. Improve members' public speaking and team building skills through interaction during group meeting discussions and mock presentations
- l. Expand the IPRO into the Camras Scholar program and allow freshman Camras students to participate in a special project

IV. Methodology/Brainstorm/Work Breakdown Structure

The way of approaching a particular task is very important in initially capturing the main idea and then coming up with the best possible solution. The approach taken to solving problems and raising awareness will be in accordance to the following steps:

- a. Setting up the common issues and topics that have been discussed in initial meetings
- b. Specification of the roles of subgroups and individuals
- c. Scheduling a timeline up to the IPRO day
- d. Finding primary future audiences, including academic institutions
- e. Developing online resources for the group to communicate
- f. Presentations will be given after comprehensive preparations in accordance with each subgroup's detailed information
- g. Creating feedback methods to improve upon presentation delivery

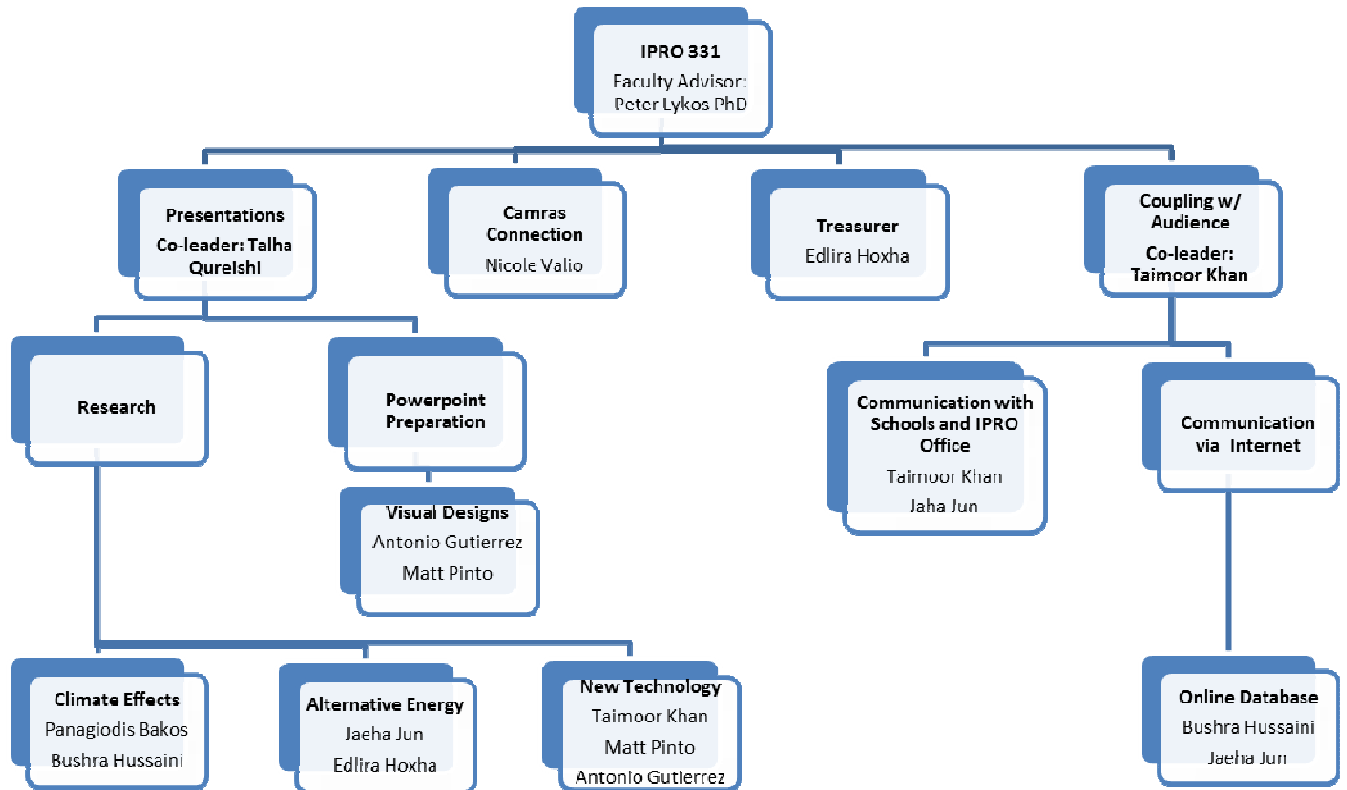
- h. Improvement made upon discussion and critique after the delivery of each presentation
- i. Expand IPRO communication with Camras scholar students

V. Expected Results

- a. The spread of global warming awareness to people of different ages and backgrounds should be achieved via presentations and online resources
- b. Development of an online data base that would include updated information and discussions to increase awareness.
- c. Team members should develop improved communication skills by participating in community outreach presentations.
- d. The team hopes to see positive audience reaction and understanding towards global warming after listening to presentations. This will be measured through feedback and surveys.

VI. Team Structure

Faculty Advisor: Peter Lykos, PhD



VII. Team Values

Each and every team member is expected to conform to the rules and ethics of society and the university. The members are expected to:

- a. Be punctual to team and other IPRO related meetings
- b. Participate in discussions
- c. Deliver work within the time constraints
- d. Listen and respect team members
- e. Provide constructive criticism to ideas provided by other team members
- f. Develop a polite and direct approach to deal with debatable issues

VIII. Budget

A very rough outline of the budget needed during the implementation of our project is presented below.

Item	Description	Cost (\$US)
Transportation	Gas, Parking, Tolls	250
Printing	Brochures, Surveys, Questionnaire	200
Miscellaneous	Food, snacks, Prizes...etc	200
	Total	650

IX. Tasks & Milestones

- a. September 10th - Project Plan due
- b. October 13th – Midterm Reviews
- c. November 15th – Final Project Report (first draft)
- d. November 29th - Abstract/Brochure
- e. November 29th - Poster
- f. December 2nd - Final Presentation
- g. December 6th - Final Project (final version)

Most presentations given to the public will not be known until around a week ahead of time. The community presentations will be documented in the final presentation on IPRO day.