A composite image of the Earth. The left side shows a realistic view of the planet with blue oceans, white clouds, and green and brown landmasses. The right side is replaced by a bright, intense fire, symbolizing global warming or climate change.

# **IPRO 331 - SPRING 08**

**Global Warming: Research and Community Outreach**

# Presentation Outline

- Introduction to Global Warming
- Team Organization
- Summary of Subgroup Topics
- Differences from last semester
- Goals for this semester
- Accomplishments
- Problems faced
- Results/Feedback from outreach
- Conclusion / Future possibilities

# Global Warming



Definition

Relevance

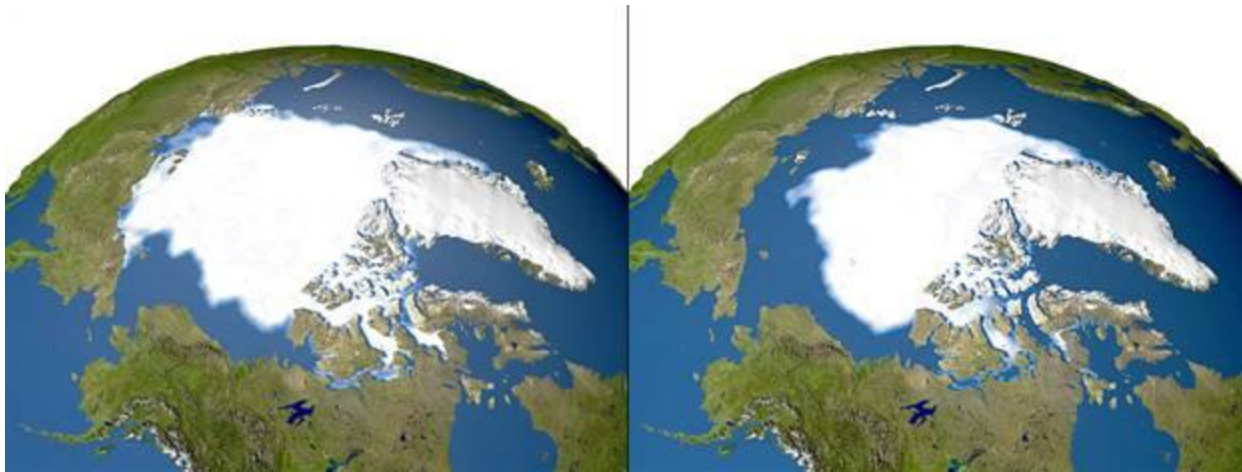
Controversy

# Definition

The increase in the average temperature of the earth's surface and oceans



# Relevance?



Picture: The decreasing ice cover in the North Pole

# Controversy?

- Are we the cause?
- Is this *actually* happening?
- What are the proven effects?



# Global Warming Subgroups

## IPRO was divided into four subgroups:

- Biofuels
- Carbon Dioxide
- Solar Energy
- Polar Ice Caps

# Biofuels

## Highlights

- Fossil fuels produce Greenhouse gases
- Fossil fuels are Running out
- Biofuels as an alternative source of energy



Harshill Parikh – Leader, 4<sup>th</sup> yr. electrical engineering  
Thomas Kennedy – 4<sup>th</sup> yr. mechanical engineering



# Carbon Dioxide

## Highlights

- Largest air pollutant of greenhouse gases
- Sources of carbon sinks
- Future projections of carbon dioxide in the atmosphere



Amber Juilfs - 3<sup>rd</sup> yr. Chemistry  
Suraj Chandrasekar – 4<sup>th</sup> yr. BME  
Ravi Inyegar – Leader, 4<sup>th</sup> yr. Biochemistry

# Solar Energy

## Highlights

- Possible way to reduce greenhouse gas emissions
- Case study on a solar smart home
- Comparison with other eco-friendly solutions



Natalie Mikosz – Leader, 4<sup>th</sup> yr. Architecture

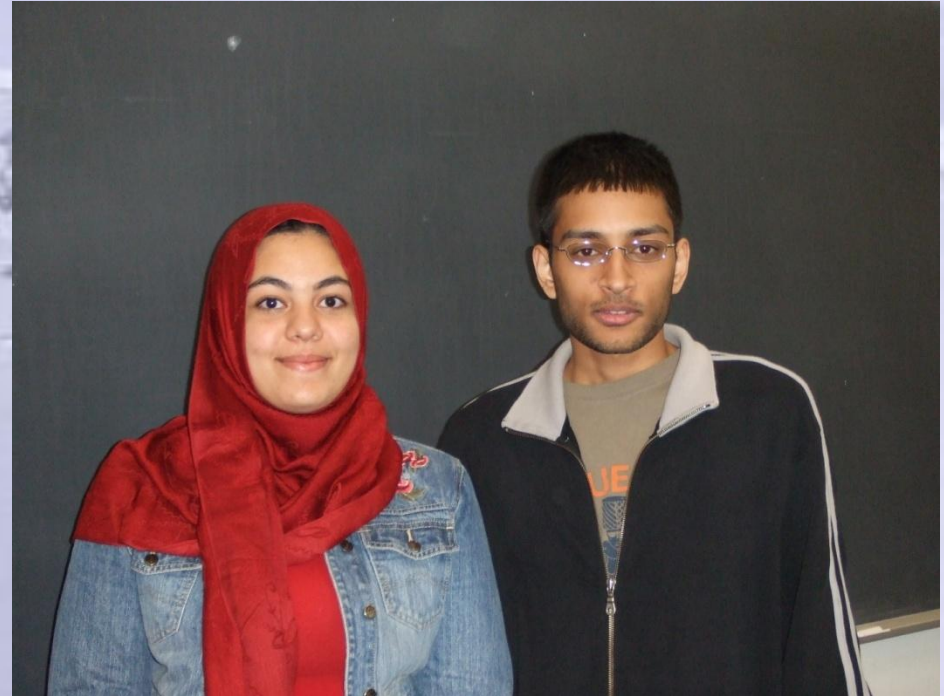
Trevor Dickson – 4<sup>th</sup> yr. Architecture

Lexie Manke – 4<sup>th</sup> yr. Architecture

# Polar Icecaps

## Highlights

- **High sensitivity to temperature change**
- **Abundant evidence in reduction of ice**
- **Global consequences on marine life, coastal cities, ocean levels**



Yosra Shaaban – 2<sup>nd</sup> yr. Biology

Rohan Amin – Leader, 3<sup>rd</sup> yr. MBB

# Goals for the Semester

- Create four factual presentations pertaining to the four subtopics
- Broaden outreach spectrum to:
  - High Schools
  - Local Colleges
  - Community Centers

# Accomplishments

## 2 outreach locations:

Rotary Club of Chicago



Biofuels

University of Chicago



Solar Energy  
Polar Ice Caps

# Problems Faced

- Improve upon rushed and overloaded presentations from last semester
- Broadening the outreach audiences

# Results From Outreach

- Provided with great feedback and future contacts
- Audiences filled out evaluations and verbally expressed opinions

## **Main Points from the presentations:**

- Material was organized and easily understood
- Presenters were educated and experienced in their subject matter

# Conclusion

## Semester Accomplishments:

- Created 4 simple understandable presentations
- Made presentations to local audiences
- Printed business cards and brochures
- Produced a website with video footage
- Set a strong foundation for next semester



# Future Possibilities

- Enhance the completed presentations
- Begin outreach efforts in the first few weeks

# Recap

- Introduction to Global Warming
- Team Organization
- Summary of Subgroup Topics
- Differences from last semester
- Goals for this semester
- Accomplishments
- Problems faced
- Results/Feedback from outreach
- Conclusion / Future possibilities

# Thank You!

