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
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, 4th yr. electrical engineering
Thomas Kennedy – 4th 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 - 3rd yr. Chemistry
Suraj Chandrasekar – 4th yr. BME
Ravi Inyegar – Leader, 4th 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, 4th yr. Architecture
Trevor Dickson – 4th yr. Architecture
Lexie Manke – 4th 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 – 2nd yr. Biology
Rohan Amin – Leader, 3rd 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
- University of Chicago

- Biofuels
- 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

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Thank You!