Formulating Your Recommendation
Science for Policy Seminar

November 10 and 12, 2014

Columbia University – Applied Physics

Your Task (*Part 1 of 3*)

- Read and understand your charge
- Assign research tasks:
  - ➡ One page & one figure summaries of each reference
- Review and understand status
- Formulate and propose (in writing) policy options
- Discuss and understand each option within your Team
- Arrive at “consensus” recommendation consisting of one, or more, concisely stated recommendations

Your *Modus Operandi*

- Understand the “big picture” technically and programmatically
- Be yourselves: *young applied physicists embarking on your futures*
- Your personal opinions matter, but *you must be able to justify and to explain them*
- Team effort: *always listen to your classmates but never hold back your ideas and suggestions*

Blue Team Assignments

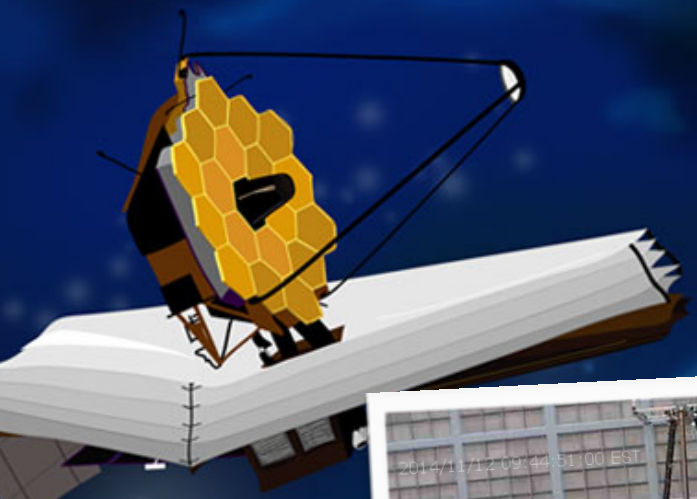
- Read and understand your charge
- Assign research tasks:
  - ➡ One page & one figure summaries of each reference

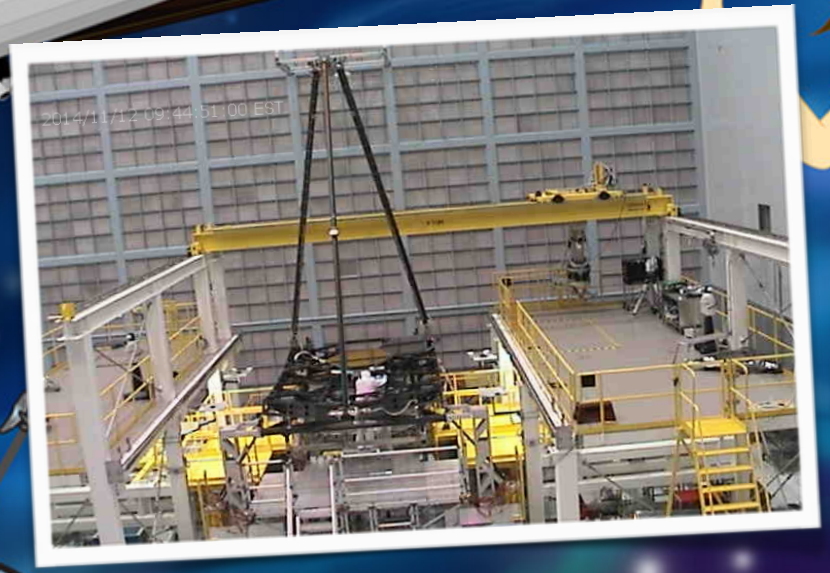
1. What do you we know about exoplanets? Review **NASA's Exoplanet Astrophysics Program** highlights.
2. Describe the program elements in **NASA's Exoplanet Exploration Program (ExEP)**
3. What are the exoplanet recommendations in the 2011 NRC Report, ***New World's New Horizons***?
4. What is NASA's exoplanet research plan, as described in **Astrophysics Implementation Plan (December 2012)**?
5. Illustrate with one or more examples upcoming research to explore the potential for life on other planets using the **JWST** and **WFIRST**? (include policy discussion about program budget and schedule)

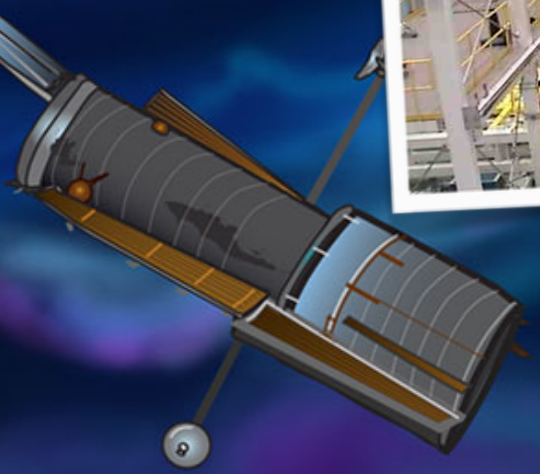
Exoplanet Exploration Program

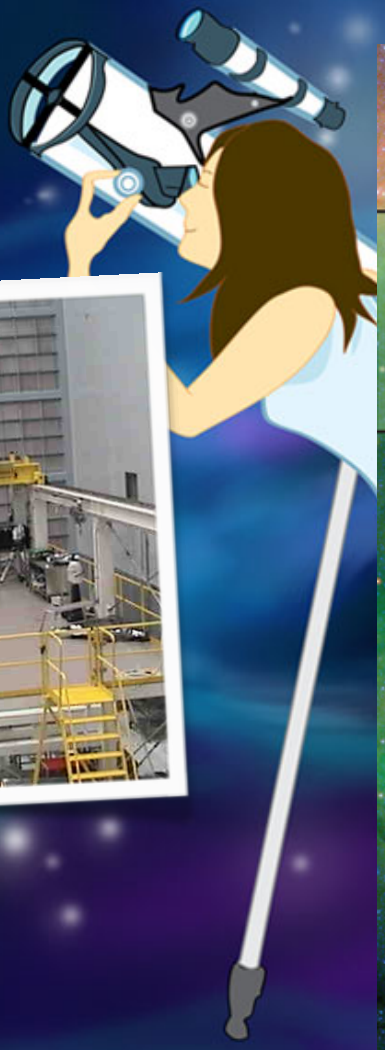
Jet Propulsion Laboratory
California Institute of Technology

The James Webb Space Telescope presents:









Green Team Assignments

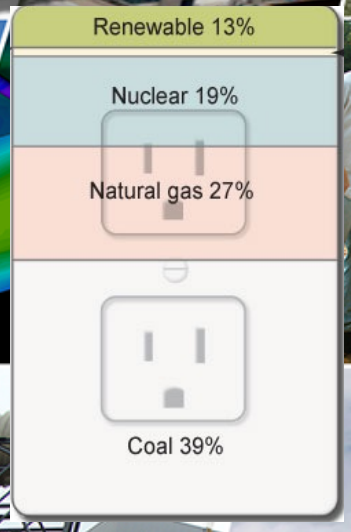
- Read and understand your charge
- Assign research tasks:
  - ➡ One page & one figure summaries of each reference

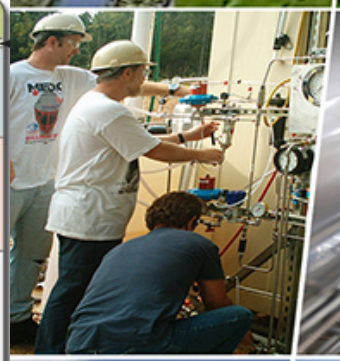
1. What is the **EPA's Clean Power Plan**?
2. Characterize the U.S. coal resources, coal production, and coal energy consumption in the U.S. as reported by the **EIA**. Include projections of CO_2 production statistics.
3. What is the (2013) technology development path defined by the **Carbon Sequestration Leadership Forum (CSLF)**? and How does this plan impact the U.S.?
4. What is DOE's Carbon Sequestration Program, as described in DOE/NETL's Report **Carbon Sequestration Program: Technology Plan (Feb 2011)**?
5. Illustrate progress with DOE's **Clean Coal Technology Plan** under the Clean Coal Power Initiative (CCPI), FutureGen 2.0, and the Industrial Carbon Capture and Storage (ICCS) programs.

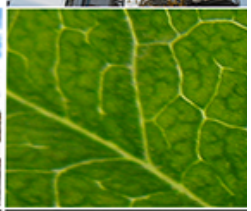
EPA United States Environmental Protection Agency

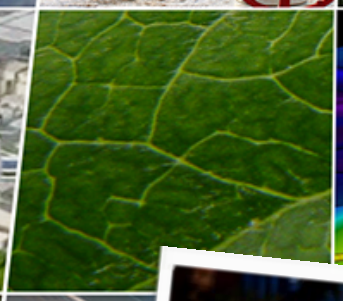
CARBON CAPTURE AND STORAGE

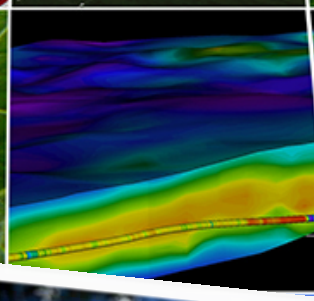
CCS

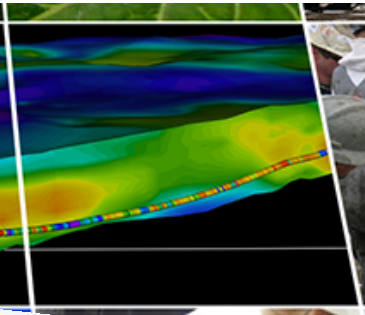












eia Independent Statistics & Analysis

U.S. Energy Information Administration

Sources & Uses | Topics | Geography

How to get assignments done by *Next Week?*

- Everyone: *Volunteer*
- Team chair: *Make certain all assignments covered by at least one volunteer. Keep a record of assignments.*
- Prepare one-page & one-figure summaries for each assignment
- Work by email
- *Send copies to me before next Monday*