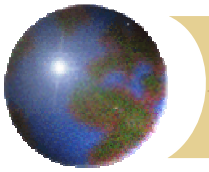


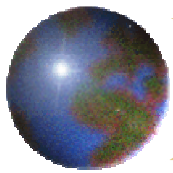
*THE RUTGERS AIR  
COMPLIANCE CENTER*

Rutgers University  
New Brunswick, NJ



## *Overview of the Rutgers Air Compliance Center*

- ✦ In operation since October, 1991
  - ✦ Currently in its fourteenth year of continuous funding
  
- ✦ Approximately 9,000 students trained
  - ✦ 421 courses presented
  - ✦ approximately 20,300 student days
  
- ✦ The Center has been exclusively an off-site, nationwide center since 1999



# *The RACC Personnel*

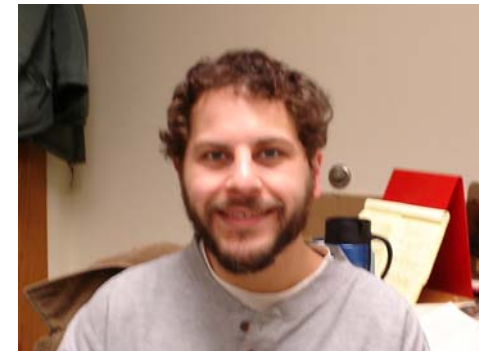
## ✦ Co-Principal Investigators

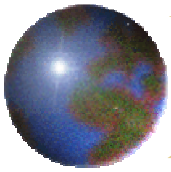
- ✦ Michael Gallo
- ✦ Christopher Uchrin



## ✦ Graduate Assistants

- ✦ Kelly Francisco
- ✦ Matthew Giacalone





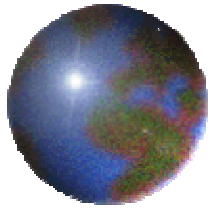
## *Contact Information*

### ✦ Michael Gallo

- ✦ Program Administrator
- ✦ Rutgers University
- ✦ (732) 932-7715
- ✦ (732) 932-8644 (fax)
- ✦ [migallo@rci.rutgers.edu](mailto:migallo@rci.rutgers.edu)

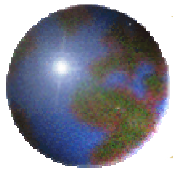
### ✦ Website address:

- ✦ "www.envsci.rutgers.edu/org/racc"



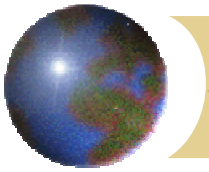
# *Rutgers Air Compliance Center*

## Fiscal Year 2005 Accomplishments



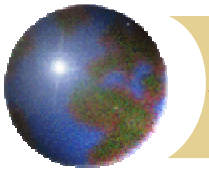
## *The Center's Accomplishments in Fiscal Year 2005*

- ❖ The Center has, to date, presented eleven (11) courses to the regional consortia
  - ❖ 24 days of training
    - of which 8 were unsubsidized
  - ❖ 343 students have been trained
    - Which represents 748 student days
      - With an average of 31 students per course
- ❖ The average course rating has been a 3.33
  - ❖ On a scale of 1.00 – 4.00

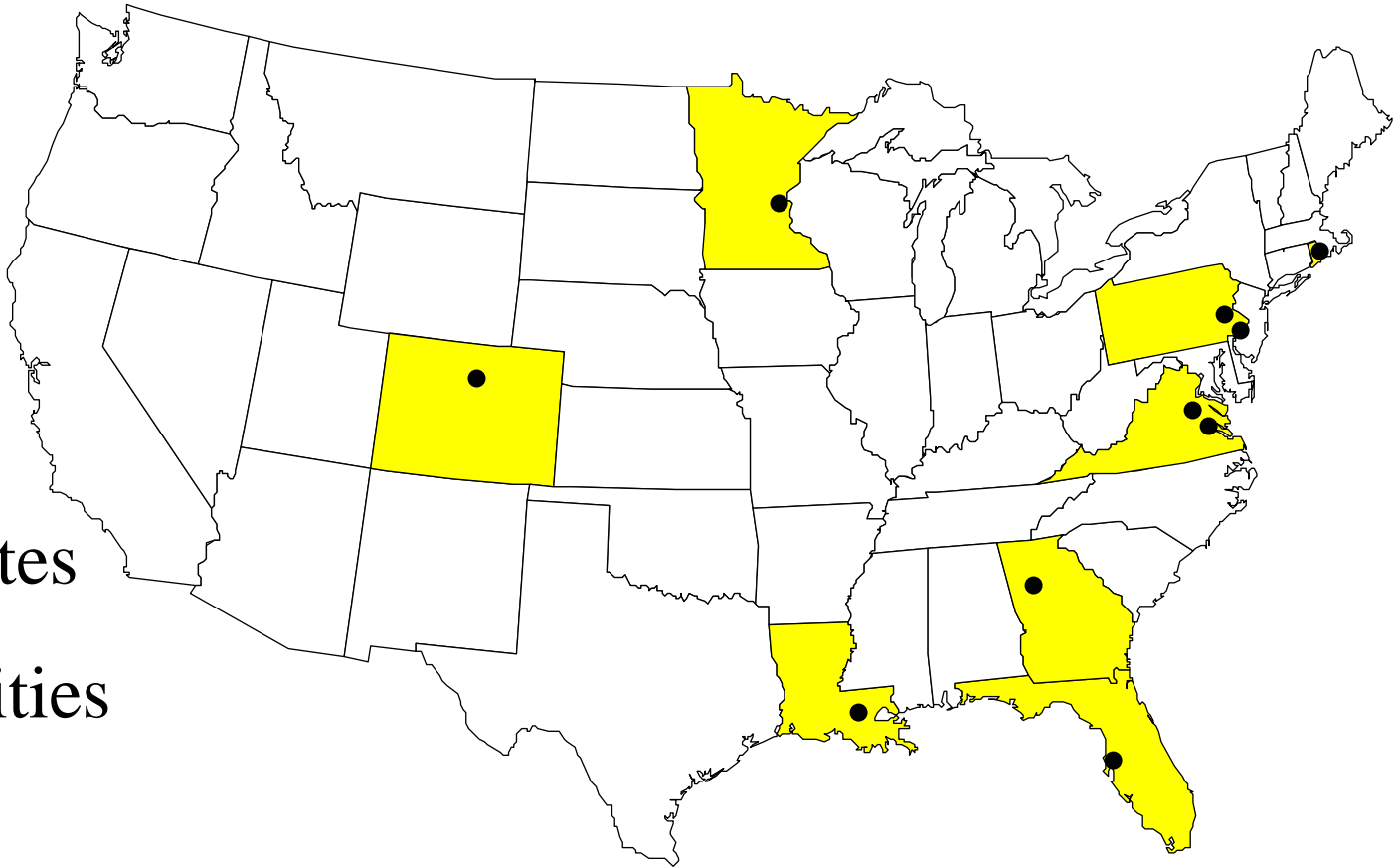


## *For the Remainder of FY05*

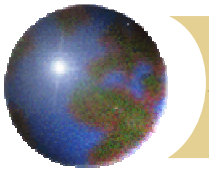
- ✦ The Center has fourteen (14) courses scheduled from March 1 - September 30, 2005
- ✦ These 26 days of training will be presented in 12 cities in 11 states throughout the country



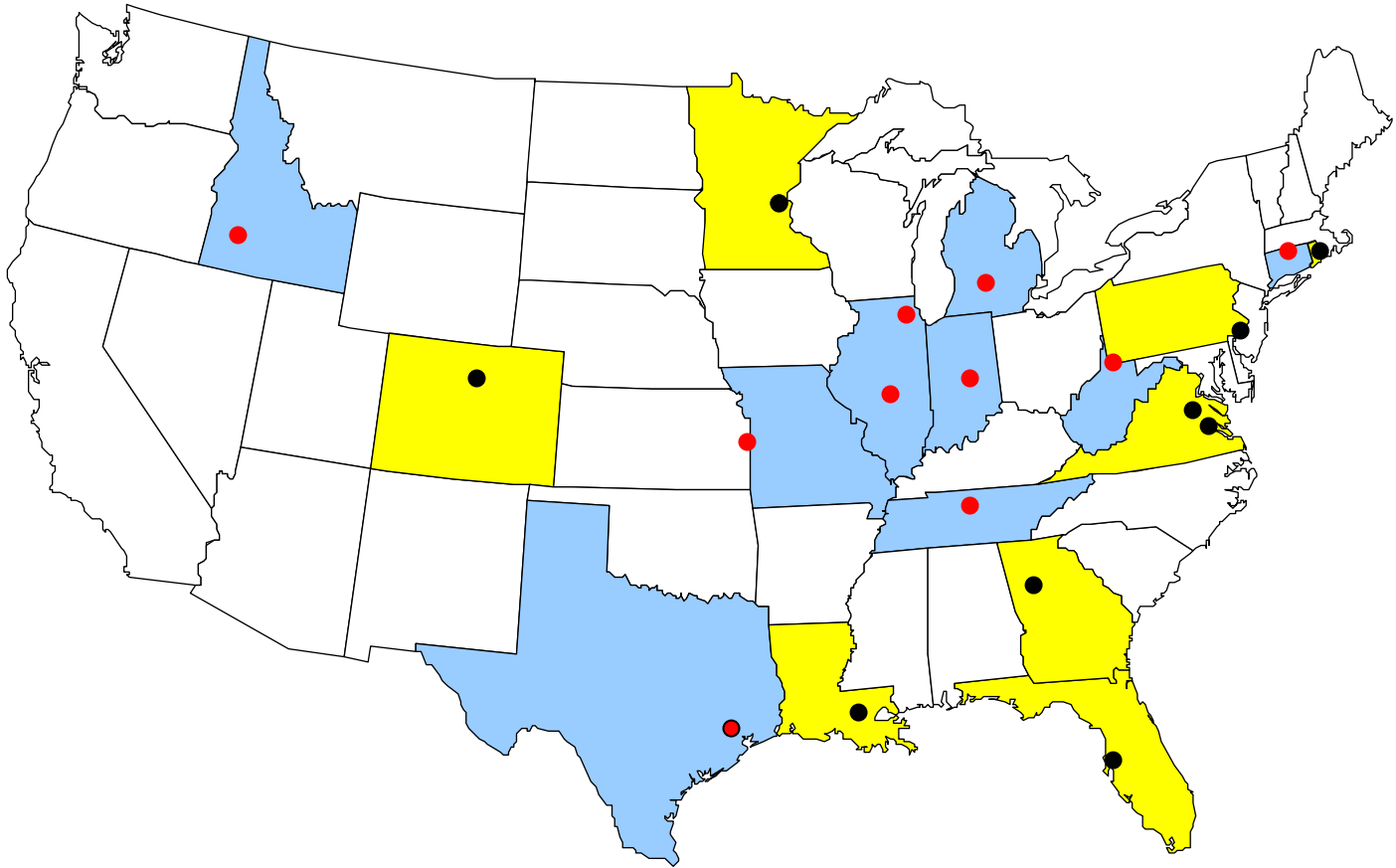
# *Fiscal Year 2005 Training Locations*

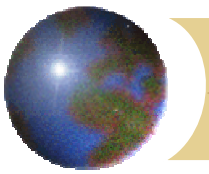


- 8 States
- 10 Cities



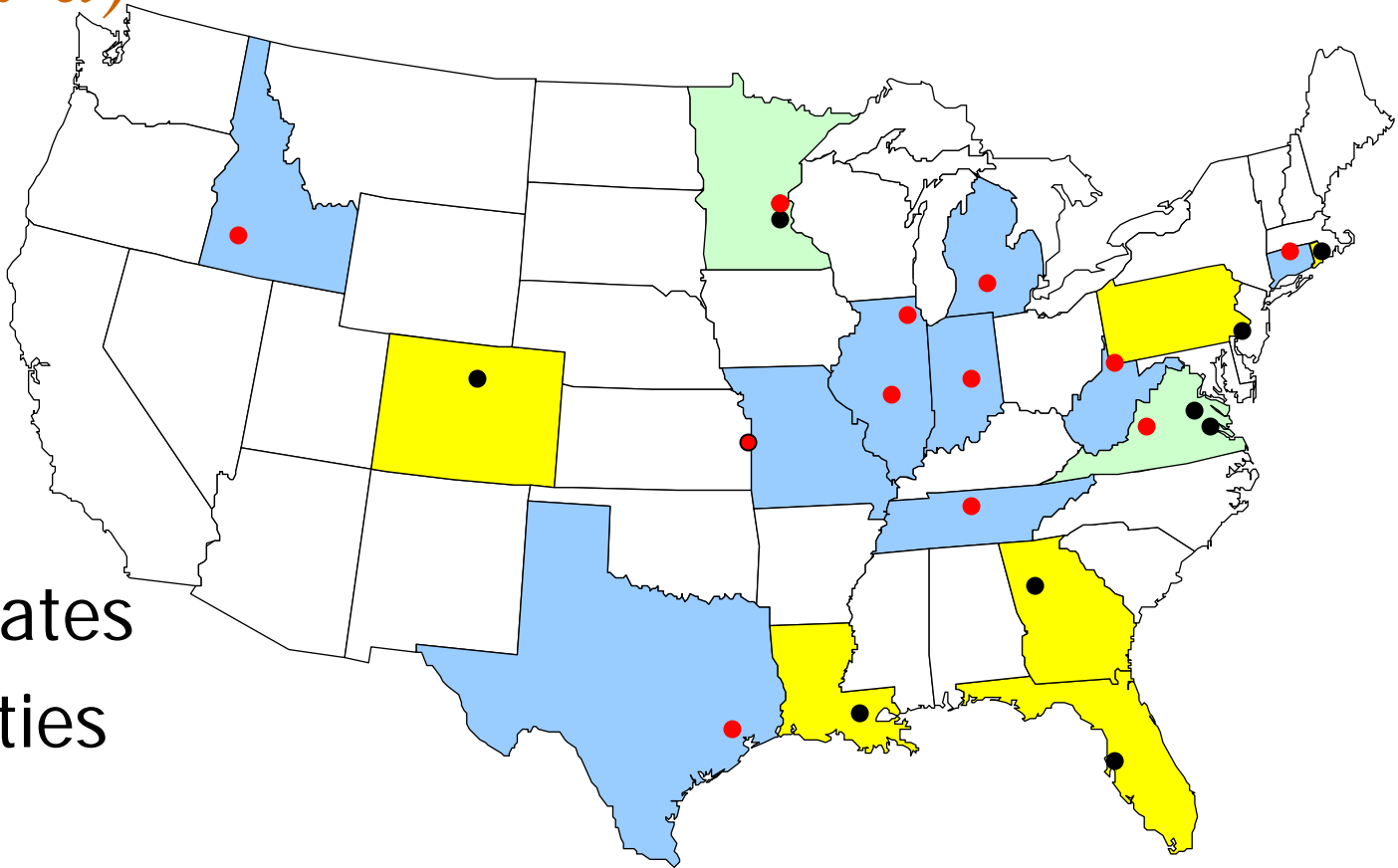
# *Fiscal Year 2005 Training Locations*





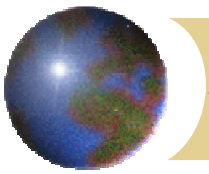
# *Fiscal Year 2005 Training Locations*

## *(Cont'd)*

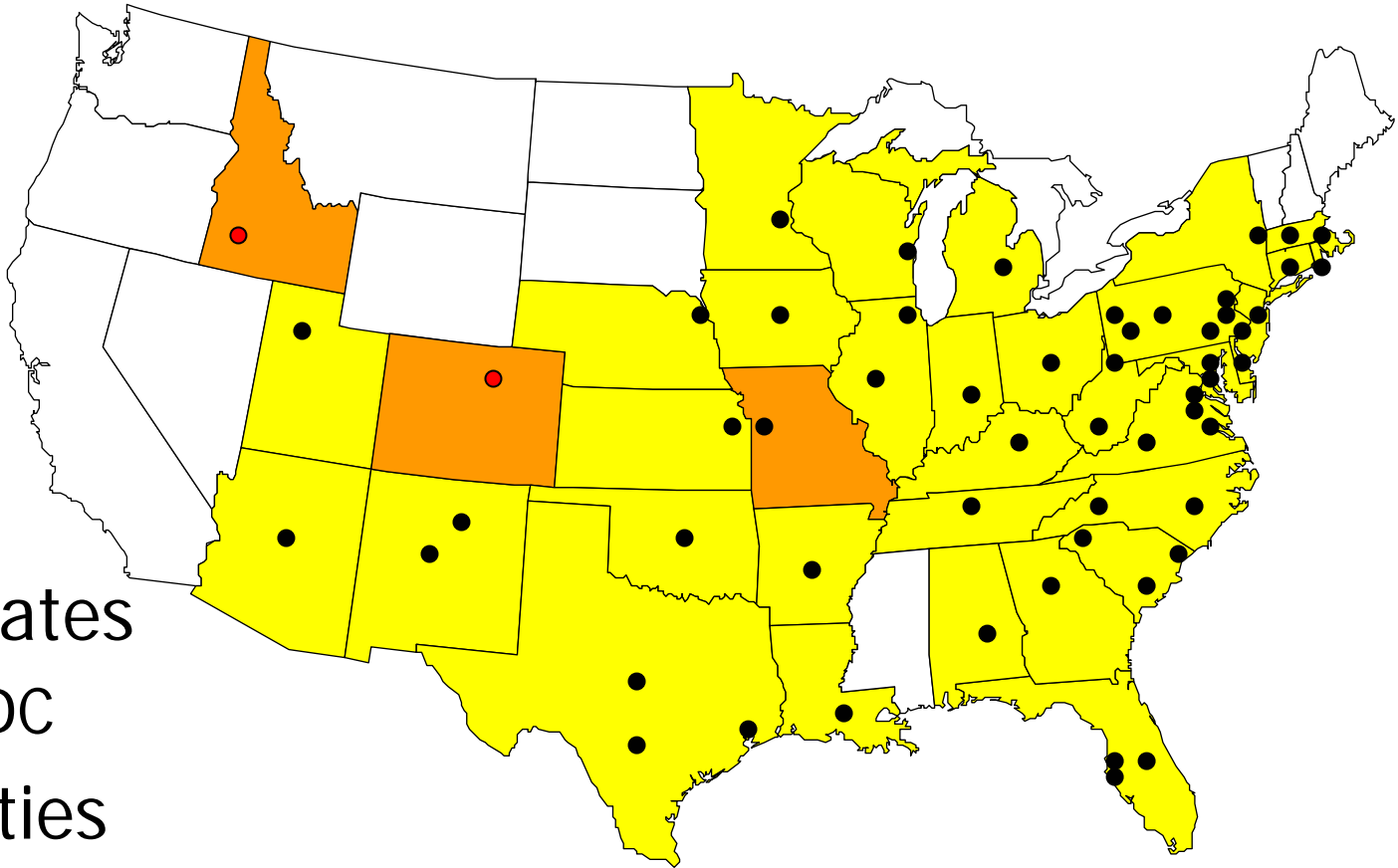


16 States

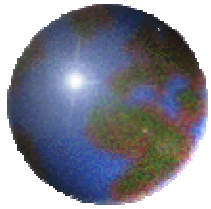
20 Cities



# *Off-Site Training Locations (1999-2005)*

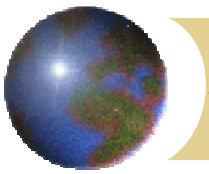


-  36 States
-  & DC
-  55 Cities



# *Rutgers Air Compliance Center*

New Course Development in FY2005



# *New Course Development*

## Fiscal Year 2004 - Fiscal Year 2005

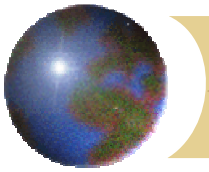
### ❑ Emissions Calculation and Data Reduction

- A new course idea that was presented at the 2004 STAPPA/ALAPCO training meeting in San Diego
  - Ultimately funded by using a portion of NESCAUM's FY04 training funds for RACC training
  - This 2-day course is now available to be presented nationwide

## Fiscal Year 2005

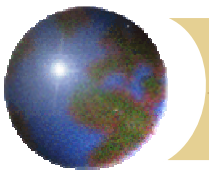
### ❑ Computer-based Area Source MACT Training

- Course development funding awarded at the 2004 STAPPA/ALAPCO training meeting in San Diego
  - Project work will begin when funding is made available



# *Emissions Calculations and Data Reduction*

- ⊗ Course was developed by Mr. Bob Machaver
  - ⊗ Taught by Bob Machaver and Dr. Brian Doyle
  
- ⊗ Topics covered in this course
  - ⊗ Converting from raw data to regulatory units (lb/hr, lb/mmbtu, etc.)
  - ⊗ Which data are critical and which are less significant
  - ⊗ Water vapor – when it matters and how to deal with wet and dry sample data
  - ⊗ Dilution corrections for combustion source data
  - ⊗ When exact results are necessary and when approximate results will suffice



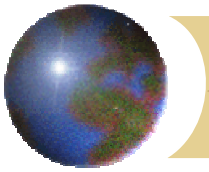
# *Emission Calculations and Data Reduction (Cont'd)*

## ✿ Pilot Course Offering

- ✿ November 11, 2004 in Providence, RI (NESCAUM)
  - 22 students trained

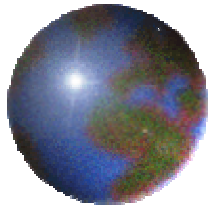
## ✿ Second Course Offering

- ✿ December 14, 2004 in Providence, RI (NESCAUM)
  - 12 students trained



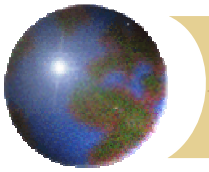
## *Computer-based Area Source MACT*

- ✿ Redesigning the Area Source MACT course for Computer-based delivery
  - ✦ A collaborative effort with the USEPA-EOG
  - ✦ A 2-phase project
    - Outlining and Revising the course content
    - Developing blended media follow-up products
      - Satellite broadcasts with same-time audio
      - Live satellite Q & A sessions



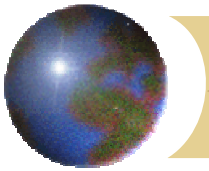
# *Rutgers Air Compliance Center*

Fiscal Year 2006 New Course  
Development Proposal



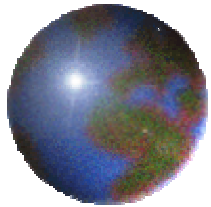
# *Greenhouse Gas (GHG) Control & Regulatory Approaches Course*

- ⊕ Technical review of Greenhouse Gas issues
  - ⊞ GHG sources and quantities
  - ⊞ GHG mitigation options
  - ⊞ GHG emissions
    - Fossil fuel combustion
    - Industrial sources
  - ⊞ CO2 capture, transport, and storage



# *Greenhouse Gas (GHG) Control & Regulatory Approaches Course (Cont'd)*

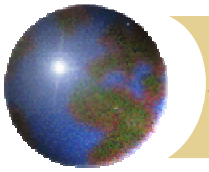
- ✦ Regulatory discussion on Greenhouse Gases
  - ✦ Cap and trade issues, banking and offset generation
  - ✦ Incentives for energy efficiency and renewable resources
  - ✦ Other regulatory approaches
  
- ✦ Current regulatory initiatives, programs, and development efforts
  - ✦ RGGI in the Northeast
  - ✦ Discussion of which sectors need to be regulated



# *Rutgers Air Compliance Center*

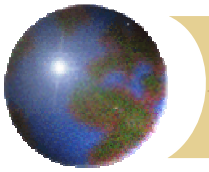
Fiscal Year 2006

Grant Proposal



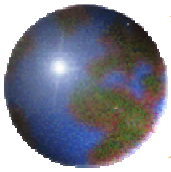
# *Rutgers Air Compliance Center's Fiscal Year 2006 Grant Proposal*

- ✦ The RACC is requesting \$270,000 in funding in FY2006
  - ✦ This is the Center's base level of funding



# *Rutgers Air Compliance Center's Fiscal Year 2006 Grant Proposal*

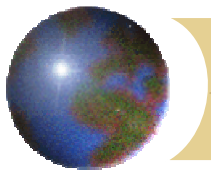
- ✦ With funding at the \$270,000 level, the Center proposes to:
  - ✦ Present forty-two (42) days of subsidized training
    - Seven (7) days of subsidized training for
      - CenSARA
      - LADCO
      - MARAMA
      - NESCAUM
      - SESARM
      - WESTAR



# *Rutgers Air Compliance Center's Fiscal Year 2006 Grant Proposal (Cont'd)*

## ✦ As always

- ✦ The RACC will be available to work with the regional consortia and state agencies to develop new training courses and workshops



*Thank You*

# Rutgers Air Compliance Center

Knowledge is power!

Our training can help