



USEPA Air Pollution Training Institute:  
Rutgers Area Training Center

Rutgers Department of Environmental Sciences

Barbara Turpin, Associate Professor, PI

Adam Reff, Director



# Rutgers Dept of Environmental Sciences: Educating Environmental Professionals

- ✿ 80 years of environmental science education and research
- ✿ Offers B.S., M.S., and Ph.D. in Environmental Science, Bioenvironmental Engineering, and Meteorology
- ✿ Continuing Professional Education
  - Community Noise Enforcement
  - Visual Emissions, Odor
  - Compliance Center
  - Rutgers Air Pollution Training Program (RAPTP)



# Rutgers Air Pollution Training Program

- ✿ Providing air pollution training to professionals since 1950s.
- ✿ Maintains a designated training laboratory and classroom.
- ✿ Classes offered use the USEPA Air Pollution Training Institute (APTI) course curricula.



# Rutgers Air Pollution Training Program

- ✦ Emphasizes hands-on training through the use of laboratory and field instrumentation.
- ✦ Our strongest course offerings make use of the available laboratory and equipment:
  - 435: Atmospheric Sampling
  - 450: Source Sampling for Particulate Pollutants
  - 464: Analytical Methods for Air Quality Standards



# Rutgers Air Pollution Training Program

- ✿ RAPTP also offers science and engineering oriented classroom courses
  - 413: Control of Particulate Emissions
  - 415: Control of Gaseous Emissions
  - 452: Principles and Practices of Air Pollution Control

# Rutgers Air Pollution Training Program

☀ The center also participates in assisting EPA with course development:

– Past examples:

- 413: Control of Particulate Emissions
- 415: Control of Gaseous Emissions

– Future possibilities:

- $PM_{2.5}$  species
- Receptor modeling

# Students at the Rutgers ATC

- ✦ Students come from around the country & world
  - e.g. NJ, NC, IA, Canada, Palestine, Hong Kong, Thailand
- ✦ Students have a wide variety of backgrounds
  - Experiences range from 0 to >20 years
  - Government, Private Sector, and Academic
  - Field, Lab, & Management Personnel
- ✦ Class & Lab interaction benefits:
  - Knowledge, experiences and contact info are shared among students.
  - Students' experiences enrich instructors' catalogue of practical accounts, which benefits future students.



# Instructors at the Rutgers ATC

## ✦ Academic

- Professor Emeritus Raymond Manganelli (Rutgers)
- Professor Barbara Turpin (Rutgers)
- Professor Douglas Harrison (LA State)

## ✦ Private Sector

- Steven Szulecki (Environmental Consultant)
- Dr. Laurence Bernson (Lucent)
- Technicians from Thermo Environmental



# Instructors at the Rutgers ATC

## ✦ New Jersey DEP

- Charles Pietarinen (Chief, Bureau of Air Monitoring)
- Luis Lim (Bureau of Air Monitoring)
- Fred Ballay (Bureau of Technical Services)

## ✦ USEPA Region II – Monitoring & Assessment

- Marcus Kantz
- Avi Teitz
- Ann Marie Carlton

# 2004 Course Schedule

## Course

## Dates



464: Analytical Methods for  
Air Quality Standards

Mar 29 – Apr 2



435: Atmospheric Sampling

June 7-11



413: Control of Particulate Emissions

Aug 16-19









464: Analytical Methods for  
Air Quality Standards

Oct 18-22


***2004 Funding Level: \$50.2K***

***\*\*17.5 scheduled training days, budgeted for 14 days\*\****

# Funding History

 <u>Year</u>	<u>Budget</u>	<u>Eval. (of 4)</u>	<u># Classes</u>
 2001	\$45.0K	3.4	12 days
 2002	\$31.5K	3.2	13 days 9 budgeted
 2003	\$31.5K	3.6	9 days
 2004	\$50.2K		17.5 days scheduled,* 14 budgeted
 2005	\$50.2K proposed		14 in budget

 BUDGET HAS PREVIOUSLY BEEN AS HIGH AS \$75K FOR 22 DAYS, ETC.

 \*With a stable base of funding, like 2004, we are often able to leverage other resources to increase training days beyond budgeted amounts. We hope to do this also in 2005.

# Rutgers ATC Budget: 9/04 – 8/05

Budget request for Year 3 of current grant (Sept 2004-Aug 2005):

Training days (9 lab, 5 lecture)	\$32,500
Operation of satellite downlink	6,400
Equipment Repair	3,600
Administrative support (5% time for registrations)	2,021
Travel to annual training meeting	1,500
ES computer services	460
<u>Overhead (8%)</u>	<u>3,719</u>
Total	\$50,200

The training courses will be selected after communication with Eastern states and the training needs survey.

# Additional Information and Registration

## • Rutgers ATC website:

- Recent updates to course schedules and the ATC
- Hotel and classroom location information
- Detailed information regarding classes
- Registration forms that can be submitted via email

• Website: <http://www.envsci.rutgers.edu/org/raptp/>

• Email: [raptp@envsci.rutgers.edu](mailto:raptp@envsci.rutgers.edu)