USEPA Air Pollution Training Institute: Rutgers Area Training Center

Rutgers Department of Environmental Sciences

Barbara Turpin, Associate Professor, PI

Adam Reff, Director

Francesco Maimone, Director after June 2005

Rutgers Air Pollution Training Program

- Emphasizes hands-on training through the use of laboratory and field instrumentation.
- Also offers science and engineering-oriented classroom courses
- Student experiences enrich instructors' catalogue of practical accounts
- Instructors include academics and state/federal agency personnel, providing both fundamental and practical knowledge

2004 Courses

4 Courses

Analytical Methods for Air Quality Standards	October
Atmospheric Sampling	August
Control of Particulate Emissions	June
Analytical Methods for Air Quality Standards	March

2004 Funding Level: $50.2K

Total course days: 17.5 days

Avg # Students: 18 per course (a good number for lab classes)

Evaluations:	"Course material was well organized"	3.2 of 4
	"Value to professional growth"	3.2 of 4

(Note: This is up from $31.5K and 9 training days in 2003)

2005 Course Schedule

Course	*Dates*	*#Days*
413: Control of Particulate Emissions	May 23 – 26	4
435: Atmospheric Sampling	June 27 – July 1	4.5
415: Control of Gaseous Emissions	Oct. 4 – 7	4
450: Source Sampling for Particulate Pollutants	Oct 31 – Nov 4	4.5

2004 Funding Level: $50.2K

Rutgers ATC Budget: 9/05 – 8/06

- Budget request for Year 4 of current grant (Sept 2005-Aug 2006):

Training days (16 days: 9 lecture, 7 lab)	$36,500
(course coordinator, instructors, supplies)	
Operation of satellite downlink	6,400
Administrative support (5% time for registrations)	1,170
Travel to annual training meeting	1,500
ES computer services (2%)	911
Overhead (8%)	3,719
Total	$50,200

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

Course Development: Analytical Methods for Air Quality Standards (464)

National Monitoring Strategy priorities are now focusing on:

- air toxics
- ozone precursors (reactive organics), and
- $PM_{2.5}$ speciation (including semi-continuous monitors)

Last revised in 1983; requires extensive modification, new labs

A popular course which we teach frequently with enhanced content; course critiques note the need for updated reference materials

Dr. Turpin's expertise is in $PM_{2.5}$ speciation including development of automated instrumentation; in addition, Rutgers has extensive expertise in GC analysis of gas-phase air toxics

Additional Information and Registration

- Website: http://www.envsci.rutgers.edu/org/raptp/
- Email: raptp@envsci.rutgers.edu