Illinois EPA Training Course
December 11-13, 2018
Springfield, Illinois

Air Pollution Training Institute (APTI) 415: Control of Gaseous Emissions Training Course

The Illinois Environmental Protection Agency (IEPA) will be sponsoring a 3-day training event on Tuesday, December 11 through Thursday, December 13, 2018 to be held at IEPA headquarters, located at 1021 North Grand Avenue, East, Springfield, Illinois. Training will be in the Sangamon Conference Room which is accessible through the North Entrance off Converse street. The course instruction for the three days will run from 8:30 AM to 4:00 PM.

Attendees will receive course manuals containing the presentation materials and additional relevant sources materials. Attached below is an agenda that provides insight into the course specifics.

INSTRUCTORS:
William J. Franek, LLC
6807 West 64th Place
Chicago, Illinois 60465
E-mail: billfranek@gmail.com

Louis DeRose; J.D., M.S., P.E.
221 Orchard Lane, Glen Ellyn, Illinois
E-mail: louderose@yahoo.com

William J. Franek, Ph.D, P.E., DEE
Bill has been an instructor for over 150 - APTI seminars for the past 35 years; Bill had an adjunct appointment at the University of Illinois Chicago until 2017 and has also been an adjunct facility at the Illinois Institute of Technology from 1990 – 2014 instructing course in air pollution monitoring, sampling and control devices.

Louis DeRose, J.D., M.S., P.E.
Illinois lawyer and professional engineer; 31 years with Cook County Department of Environmental Control: Director (3 years), Assistant Director (5 years), Supervisor and Engineer (23 years).

COURSE DESCRIPTION:
The APTI 415 Control of Gaseous Emissions course is a basic course that is designed for individuals within a regulatory agency whose role is to evaluate gaseous emission sources for permitting and inspections for determining the ongoing compliance status of such emission sources. This class is intended for new permit and compliance engineers and scientists who are responsible for permitting and compliance activities.

Those completing this course will gain a basic understanding of the different types and the operating characteristics of control devices that are available for specific gaseous emission sources. Attendees will be able to perform regulatory reviews involving the following elements of gaseous emissions and control:

- Basic concepts of gas behavior
- Sources of gaseous contaminants
- Emission testing and monitoring
- Carbon bed adsorbers
- Thermal incinerators (or oxidizers)
- Catalytic incinerators
- Absorbers
- Condensers
- Hood and fans effect on control systems
Students successfully completing this course will understand the operating principles of gaseous control systems used at air pollution control sources. Introductory material concerning gas stream characteristics, and sources of gaseous contaminants is provided as a basis for this course. This course introduces control of nitrogen oxides and sulfur oxides. This course provides a foundation for later courses concerning source sampling, inspection, and permit review.

**REGISTRATION INFORMATION:**
This course is limited to 25 spots. Any interested attendees should register for the class on the APTI-LMS and they will automatically be put on the waiting list. Registration deadline is November 28, 2018. Below is the link to register on the APTI-LMS (note: you must log-in before you can to register):


Lodging is available near the IEPA office. Some specific nearby hotels to consider are Northfield Inn and Suites at 3280 Northfield Dr. (217-523-7900) or the Wyndham Hotel at 700 E. Adams St. (217-789-1530). Many other hotels in the vicinity as well. Additional questions regarding the training and logistics should be directed to Brenda Jones @217/785-4140 or by email at Brenda.Jones@illinois.gov.
Course 415  
Control of Gaseous Emissions  
December 11-13, 2018

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<thead>
<tr>
<th>DAY &amp; TIME</th>
<th>SUBJECT</th>
<th>SPEAKER</th>
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<tbody>
<tr>
<td>Day One</td>
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<tr>
<td>8:30</td>
<td>Introduction</td>
<td>W. Franek</td>
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<td>8:45</td>
<td>Pre-test</td>
<td>L. DeRose</td>
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<td>9:15</td>
<td>Basic Concepts Chapter 1</td>
<td>L. DeRose</td>
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<td>10:15</td>
<td>BREAK</td>
<td>L. DeRose</td>
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<tr>
<td>10:30</td>
<td>LEL &amp; Control Types Chapter 2</td>
<td>L. DeRose</td>
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<td>11:30</td>
<td>LUNCH</td>
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<tr>
<td>12:30</td>
<td>Air Pollution Control Systems Chapter 3</td>
<td>W. Franek</td>
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<td>2:30</td>
<td>BREAK</td>
<td>W. Franek</td>
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<td>2:45</td>
<td>Adsorption Systems Chapter 4</td>
<td>W. Franek</td>
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<td>4:00</td>
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Day Two  
8:30 Adsorption Systems (continued) and Air Compliance Advisor | W. Franek
10:15 BREAK | W. Franek
10:30 Absorption Systems Chapter 5 | W. Franek
12:00 LUNCH | W. Franek
1:00 Absorption Systems (continued) | W. Franek
2:15 BREAK | W. Franek
2:30 Oxidation Systems Chapter 6 | L. DeRose
4:00 ADJOURN | W. Franek

Day Three  
8:30 Condensation Control Chapter 7 | W. Franek
9:30 Estimating VOC Emissions from Chemical Manufacturing Facilities EIIP Vol. II Chapter 16 | W. Franek
10:30 Break | W. Franek
Estimating VOC Emissions from Chemical Manufacturing Facilities EIIP Vol. II Chapter 16 (cont.) | W. Franek
11:30 LUNCH | W. Franek
12:30 Controls for GHGs Chapter 10 | L. DeRose
2:00 BREAK | W. Franek
2:15 Control of NOx Chapter 8 | W. Franek
3:00 Pre-Test Review | L. DeRose
3:30 Post-Test | W. Franek
4:00 ADJOURN | W. Franek

Course Instructors:  
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