## GENERAL CONTROL METHODS — ENV 388

OAKLAND UNIVERSITY  
FALL SEMESTER, 2007  
Mondays, 6:00 p.m. - 9:00 p.m.

<table>
<thead>
<tr>
<th>Date</th>
<th>Topics</th>
<th>Lecturer</th>
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<tbody>
<tr>
<td>9/10</td>
<td>Introduction - Fundamental IH Concepts, General IH Control Methods, Governmental Standards</td>
<td>Thiel</td>
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<tr>
<td>9/17</td>
<td>Substitution, Alteration, Wet Methods, Isolation, Training and Hazard Communication</td>
<td>Thiel</td>
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<td>9/24</td>
<td>Shielding, Distance, Duration, Administrative Controls, Medical Surveillance, Recordkeeping</td>
<td>Thiel</td>
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<tr>
<td>10/1</td>
<td>Sanitation, Personal Protective Equipment - Skin, Eye, Hearing</td>
<td>Thiel</td>
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<tr>
<td>10/8</td>
<td>Respiratory Protection I</td>
<td>Robert</td>
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<tr>
<td>10/15</td>
<td>Respiratory Protection II</td>
<td>Robert</td>
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<tr>
<td>10/22</td>
<td>Mid-term Examination</td>
<td>Robert</td>
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<tr>
<td>10/29</td>
<td>Noise Control</td>
<td>Thiel</td>
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<td>11/5</td>
<td>Ventilation</td>
<td>Robert</td>
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<td>11/12</td>
<td>Gas/Vapor Control</td>
<td>Robert</td>
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<td>11/19</td>
<td>Ionizing and Non-ionizing Radiation Control</td>
<td>Robert</td>
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<td>11/26</td>
<td>Metals, Dusts and Fibers Control</td>
<td>Thiel</td>
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<td>12/3</td>
<td>Student Papers/Presentations</td>
<td>Thiel</td>
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<tr>
<td>12/10</td>
<td>Final Examination</td>
<td>Robert</td>
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Course Instructors

Douglas P. Thiel — Manager, NAFTA Emergency Response
BASF Corporation
Business Telephone: (734) 324-6208
e-mail address: douglas.thiel@basf.com

William P. Robert — Product Steward Manager, Polyurethanes
BASF Corporation
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william.robert@basf.com

Class Format

14 Class Sessions
11 lectures
1 midterm
1 final exam (non-cumulative)
1 student paper/presentation

Provided at Each Lecture:
  Outline
  Appropriate Handouts

Grading

Midterm - 40%
Final - 40%
Student Paper - 10%
Student Presentation - 10%

Required Text

None
Student Paper/Presentation

Potential Topics
Glass Industry
Chlor-Alkali Industry
Electrolytic Industry
Pulp and Paper Industry
Plastics Industry
Rubber Industry
Petroleum Refining Industry
Soap and Detergent Industry
Cement Industry
Ceramics Industry
Sulfur and Sulfuric Acid Industry
Nuclear Industry
Flavors, Fragrances, and Food Additive Industry
Wood Chemical Industry
Electroplating Industry
Foundry Industry
Iron and Steelmaking Industry
Battery Manufacturing Industry
Wastewater Treatment
Plastics Industry

Paper
5 - 10 typed pages
Include overview of industry - major health hazards and control measures which are in use today.

Presentation
20 - 25 minutes in length
Use overhead transparencies, computer projection and/or 35 mm slides

References

Recognition of Health Hazards In Industry - A Review of Materials and Processes, William A. Burgess

Industrial Hygiene Aspects of Plant Operations, Volumes I, II, and III, Lester V. Cralley and Lewis J. Cralley (Editors)

Industrial Hygiene and Toxicology, Volume II, Second Revised Edition, Frank A. Patty (Editor)

<table>
<thead>
<tr>
<th>Name</th>
<th>Previous IH Courses</th>
<th>Home Phone #</th>
<th>Work Phone #</th>
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