Man, Machine and the Industrial Landscape:
Re-Imagining the Relationship between Industrial and Public Territories

Columbia University Graduate School of Architecture
A4776 Seminar Building Science and Technology Seminar
Fall 2018: Monday 9:00am – 11:00am [ Avery 300 ]

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ABSTRACT
Industrialized communities are prevalent in every corner of the world today, and as a result the global population is now more urban than rural. Over the next century, existing and developing metropolises will have to reconsider traditional relationships between industrial and public territories in order to accommodate and sustain an increased level of demand for space and services.

This course examines past and present strategies of meeting the growing industrial and infrastructural demands of our society. In order to identify areas where industrial technologies and landscapes might be re-calibrated to serve future infrastructural networks, the course explores new relationships between the public, local ecology and industry. Through lectures, field trips, self-directed research and student design projects, the course helps frame an understanding of the means and methods of industrial activities ranging from mining to waste management with a focus on current and future techniques of material extraction, refinement, and redistribution.

Students produce writings and drawings analyzing and re-imagining the current state and potential futures of industrial processes and sites. Students are encouraged to use their research assignment as a way of investigating interesting and unfamiliar industrial processes, but more importantly as a means to initiate a thesis for why and how architects can influence the necessary change in structuring our growing communities.

FIELD TRIPS
Brooklyn Grange Rooftop Farm
Fresh Kills Landfill Gas Refinery
Linden GE Co-Generation Power Plant and Oil Refinery
Battery Park City Water Reuse Facility

GUEST LECTURERS / GUIDES
Anastasia Cole Plakias (Brooklyn Grange Founding Partner)
Ted Nabavi (Freshkills Park Butane Refinery Plant Manager)
Anna Lindsay (GE Co-Generation Power Plant Manager)
Zachary F. Gallagher (Vice President, Natural Systems Utilities)
SCHEDULE

10 Sept.  **Man, Machine and the Industrial Landscape**  
Location: Avery 300  
Lecture: The Urban Millennium and Industrial Futures  
**Workshop:** Analytical Drawings Discussion  
**Handout:** Assignment 1: ‘Identifying Areas of Interest’

17 Sept.  **Augmentations of Earth**  
Location: Avery 300  
Lecture: Material Extraction Means and Methods  
**Workshop:** Areas of Interest / Readings Discussion  
**Handout:** Assignment 2: ‘Industrial Activities Analysis’

24 Sept.  **Site Visit:** Brooklyn Navy Yards Grange Farm  
Guest: Anastasia Cole Plakias (Founding Partner)  
Location: 37-18 Northern Blvd. Long Island City, NY 11101  
Time: 8:45am

01 Oct.  **Sourcing States of Matter**  
Location: Avery 300  
Lecture: Material Refinement Techniques  
**Pin-Up:** Assignment 3 Progress Work: ‘Sketch Proposal’

09 Oct.  **Site Visit: Fresh Kills Gas Plant + Park Site Visit**  
Guests: Ted Nabavi + Megan Moriarty  
Location: Manhattan Whitehall Ferry Terminal  
Time: 9:15am(10:00am Bus Pick-Up)  
Crits: Individual

15 Oct.  **Landscapes of Production**  
Guest: John Barrett (Shop Architects)  
Location: Avery 300  
Lecture: New York Power Industry  
**Pin-Up:** Assignment 2: ‘Industrial Activities Analysis’  
**Handout:** Assignment 3: ‘¾ Review: Recalibration Strategies’

22 Oct.  **Site Visit: Linden GE Co-Generation Power Plant & Refinery**  
Guest: Anna Lindsay (GE Power Plant Manager)  
Bus: Meet at Columbia University East Gate at Amsterdam  
Time: 8:30am  
Crits: Individual

29 Oct.  **Individual Critiques**  
Location: Avery 300  
**Workshop:** Project Proposal

05 Nov.  Academic Holiday (No Class)  
Web Crits: Optional

12 Nov.  **¾ Review: Guest Critics**  
Location: Ware Lounge  
**Pin-Up:** Project Proposal  
Time: 8:30am – 12:00pm
19 Nov. **Site Visit: Battery Park City Water Reuse Infrastructure**
   - Guest: Zach F. Gallagher, (VP, Natural Systems Utilities)
   - Location: 70 Little West Street, Battery Park City
   - Time: 9:30am
   - Handout: Final Pamphlet / Post

26 Nov. **Individual Critiques**
   - Location: Avery 300
   - Workshop: Storyboard Pamphlet

03 Dec. Final Reviews (No Class)
   - Crits: Optional

10 Dec. **Final Pamphlet Workshop**
   - Location: Ware Lounge
   - Pin-Up: Final Pamphlet / Post
   - Time: 8:30am – 12:00pm

17 Dec. **Grading Material Deadline**
   - Submit: Final Pamphlet (PDF)