

# 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: '¼ 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.      **¼ Review: Guest Critics**  
Location:      Ware Lounge  
Pin-Up:        Project Proposal  
Time:         8:30am – 12:00pm

