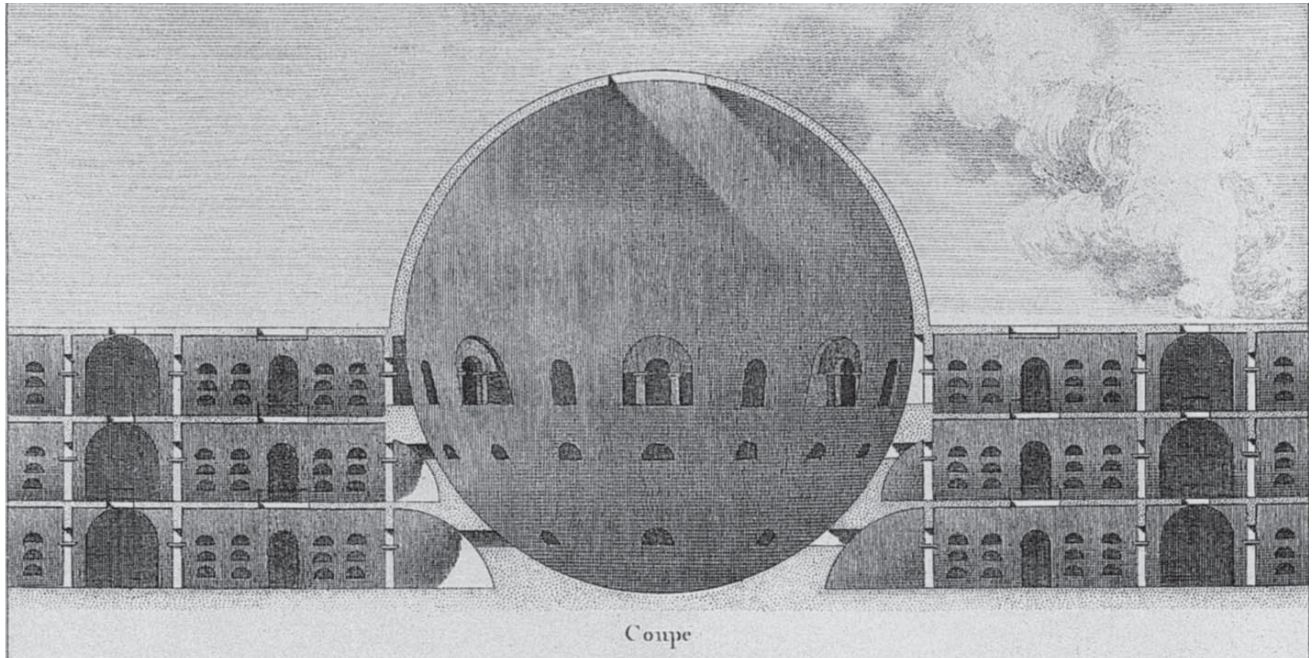


mass effects

introduction

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assistants: Kristy Balliet, Oliver Bertram, Justin Diles, Martin Mirero



This term we will continue working on the topic of mass and we will study an architecture of:

- carving
- hollowing
- sculpting
- thickness
- poché
- **MASS**

We will shift our focus from layers of surfaces and structures to volume and mass. In task 1, we investigated the architectural problem of a sculpted, freestanding mass, independent of the landscape, containing a cavernous void space. Between the mass and the void is pochè. The design of fenestration and the relationship of the interior void(s) and spaces to the exterior are through massive pochè rather than through layers of surfaces. We will continue this investigation with the addition of program and landscape. The principle architectural problem is to create a sculpted mass with a discrete contiguous main interior space (a significant void).

The scale of the project is small to allow for more exploration of materiality and large scale sections and models. We will tackle a building typology with few or no windows, **Agricultural Buildings**. These buildings are comprised of various areas of production, processing, storage, and distribution, depending on the raw material or crop being stored/produced. The site is in the Rhône Alpes region of France, along the main allee leading to the Royal Saltworks, by Ledoux.

We will be looking exclusively at specific projects of Ledoux and Le Corbusier for precedents of mass and volume. There is no particular shape language or vocabulary germane to mass and pochè but nonetheless these two architects are known for their use of primary shapes and platonic solids associated with a new kind of formalism. Our studio can use the vocabulary and shapes that have been in vogue in the studio or more primary volumes can be explored. **Shape is irrelevant to the theme of mass and volume.**

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LE CORBUSIER

1905: Villa Fallet, La Chaux-de-Fonds, Switzerland
1912: Villa Jeanneret-Perret, La Chaux-de-Fonds
1916: Villa Schwob, La Chaux-de-Fonds
1923: Villa La Roche/Villa Jeanneret, Paris
1924: Pavillon de L'Esprit Nouveau, Paris (destroyed)
1924: Quartiers Modernes Frugès, Pessac, France
1925: Villa Jeanneret, Paris
1926: Villa Cook, Boulogne-sur-Seine, France
1927: Villas at Weissenhof Estate, Stuttgart, Germany
1928: Villa Savoye, Poissy-sur-Seine, France
1929: Armée du Salut, Cité de Refuge, Paris
1930: Pavillon Suisse, Cité Universitaire, Paris
1930: Maison Errazuriz, Chile
1931: Palace of the Soviets, Moscow, USSR
1931: Immeuble Clarté, Geneva, Switzerland
1933: Tsentrosoyuz, Moscow, USSR
1936: Palace of Ministry of National Education and Public Health, Rio de Janeiro (as a consultant)
1938: The "Cartesian" sky-scraper (project)
1945: Usine Claude et Duval, Saint-Dié-des-Vosges, France
1947–1964: Unité d'Habitation, Marseille, France
Nantes, Berlin, Meaux, Firminy
1948: Curutchet House, La Plata, Argentina
1949–1952: United Nations headquarters, NYC (Consultant)
1950–1954: Chapelle Notre Dame du Haut, Ronchamp
1951: Cabanon de vacances, Roquebrune-Cap-Martin
1951: Maisons Jaoul, Neuilly-sur-Seine, France
1951: Mill Owners' Association Building, Villa Sarabhai and Villa Schodan, Ahmedabad, India
1952–1959: Buildings in Chandigarh, India
1952: Palace of Justice (Chandigarh)
1952: Museum and Gallery of Art (Chandigarh)
1953: Secretariat Building (Chandigarh)
1953: Governor's Palace (Chandigarh)
1955: Palace of Assembly (Chandigarh)
1959: Government College of Arts (GCA) and Chandigarh College of Architecture (CCA)
1956: Museum at Ahmedabad, Ahmedabad, India
1956: Saddam Hussein Gymnasium, Baghdad, Iraq
1957: Unité d'Habitation of Briey en Forêt, France
1957: National Museum of Western Art, Tokyo
1957: Maison du Brésil, Cité Universitaire, Paris
1957–1960: Sainte Marie de La Tourette, near Lyon, France
1958: Philips Pavilion, Brussels, Belgium
1961: Center for Electronic Calculus, Olivetti, Milan, Italy
1961: Carpenter Center, Harvard University, Cambridge, Massachusetts
1964–1969: Firminy-Vert
1966: Stadium Firminy-Vert
1965: Maison de la culture de Firminy-Vert
1969–2006: Church of Saint-Pierre, Firminy, France
1967: Heidi Weber Museum (Centre Le Corbusier), Zurich

Precedents

LEDOUX

1762: Decoration of Café militaire (or Café Godeau), Paris, (Musée Carnavalet, Paris)
1763: Château de Mauperthuis (Seine-et-Marne), (ds)
1764-1765: Hôtel du président Hocquart, Paris, (ds)
1766: Hôtel d'Hallwyll, Paris
1767: Hôtel d'Uzès, rue Montmartre, Paris, (détruit vers
1870: The boiseries du salon de compagnie have been conserved since 1968 at the Carnavalet Museum.
1768-1769: Château de Bénouville, Bénouville, Calvados
Hôtel de la présidente de Gourgues, Paris
Hôtel of Mlle Guimard, Chaussée d'Antin, Paris (ds)
1769-1770: Maison de Mlle Saint-Germain, Paris, (ds)
Pavillon Saint-Lambert, Eaubonne (ds)
1771: Pavillon d'Attilly, faubourg Poissonnière, Paris (ds)
1770-1771: Pavillon de musique de Mme du Barry, Louveciennes
1772 : Hôtel de Montmorency, Paris, (ds)
1774-1779: Royal Saltworks at Arc-et-Senans
1778-1784: Théâtre de Besançon,
1778: Hôtel Thellusson, Paris, (ds)
Hôtel de Mme d'Espinchal, Paris (ds)
Parc de Bourneville, La Ferté-Milon (Aisne)
Grenier à sel de Compiègne (Oise)
Siège de la Ferme générale,, Paris
1785: Pavillons et Barrières de l'Octroi de Paris
**ds=destroyed*

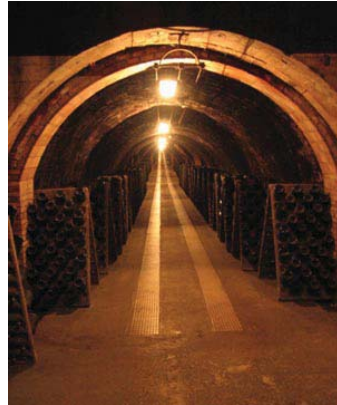
Visionary Projects: Unbuilt

Monument for recreational Purposes
Temple of Remembrance
House of Education
Oikema (House of Pleasure)
Bridge of over the River Loue
City Chaux
Cemetery of the City of Chaux
Church of the City of Chaux
House of Agricultural Guards of Maupertuis
The Guinguette Saint-Marceau
Barrel-Maker's Workshop
House of the Directors of Loue
Panaréthon
Series of Country Houses
House of the Woodcutters
House for the Meadow Watcher
House of Virtue
House of the Man of Letters
Project of a Farm
House with Four Outlooks
Cénobie
Prison at Aix
House in the Park Bellevue
Cannon Forge

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program



Program: Any cavernous building, related to agriculture

Each student should select an agricultural building type from the examples below, or another type that fits to the site and region. The critical component is that it has the requirement for a cavernous void and requires little daylight.

Examples:

LA CHAMPIGNERIE Mushroom Growing Farms

Typically a windowless, purpose built structure with high degree of climate control necessary

LA FROMAGERIE Cheese Finishing, Aging and Production

An affineur du fromage is a company that primarily specializes in the finishing and aging of cheese.

LA CAVE à VIN Wine Cellar

A wine cellar with public tasting facility

Black Space *no daylight (approximately 1200 m²)

Cavernous Space/Principle Void (400 m² and 4200 m³)

- Aging Room(s)
- Growing Room(s)
- Barrel Cellar(s)

Production Rooms (800 m²)

- Finishing Kitchen(s)
- Walk-in Freezer(s)
- Packaging Facility(s)

Grey Space *modulated levels of daylight (approximately 800 m²)

Administration (300 m²)

- Offices (2-4)
- Conference Room/ Presentation Space

Support Area (250 m²)

- Locker Room-/ Restrooms *workers and guests
- Mechanical Room

General Access (250 m²)

- Tasting Room
- Testing Room
- Shop/ Retail Area

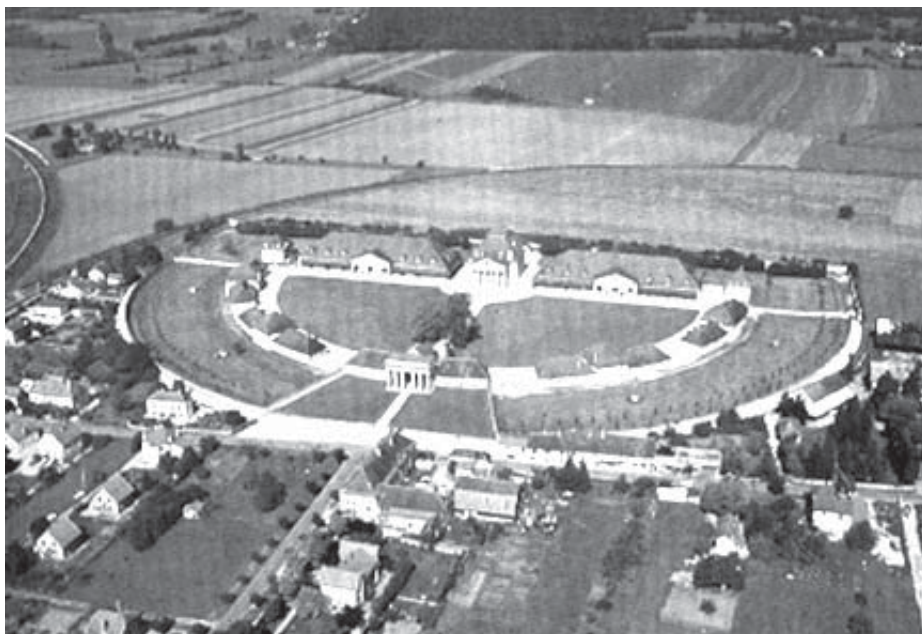
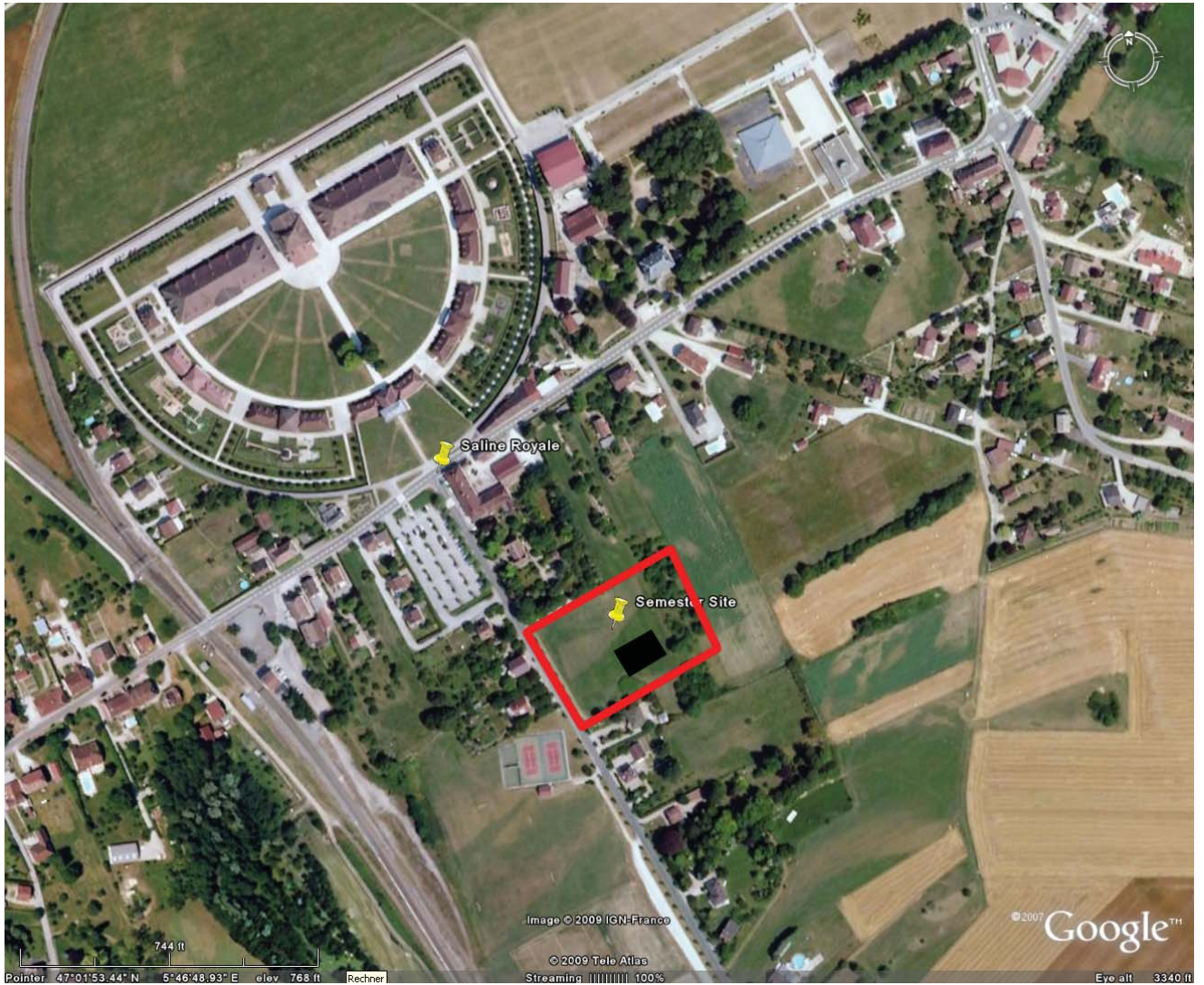
Total Footprint Area: 1200 m² Total Floor 2000 m² (circulation: 15%)

Consideration should be given to how the building 'hits' the ground.

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site

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9600 m² (120 m² x 80 m²)
project footprint approximately 800-1200 m², indicated by black square

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Schedule

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October	06.10.09	tu	2-6	Semester Kick Off and *Mass Lecture
	08.10.09	th	2-6	Exercise 01, desk crits
	09.10.09	fr	2-6	Digital Modeling Tutorial I
	11.10.09-16.10.09			Study Trip (Eastern France + Lyon)
	20.10.09	tu	2-6	Meeting with Greg
	22.10.09	th	2-6	Desk Crits
	23.10.09	fr	2-6	Digital Modeling Tutorial II
	27.10.09	tu	2-6	Drawing Tutorial I // Desk Crits
	29.10.09	th	2-6	Physical Modeling Tutorial I // Desk Crits
November	03.11.09	tu	2-6	Presentation of Task 01
	05.11.09	th	2-6	Task Lecture: Agricultural Architecture
	10.11.09	tu	6-8	Desk Crits or (wednesday)
	12.11.09	th	2-6	Desk Crits
	17.11.09	tu	6-8	Desk Crits or (wednesday)
	19.11.09	th	2-6	Desk Crits
	24.11.09	tu	2-6	Desk Crits (Sliver Lecture: Mark Lee)
	26.11.09	th	2-6	Desk Crits (Sliver Lecture: Florencia Pita)
	26.11.09-27.11.09	th/fr	TBA	(Workshop: Florencia Pita)
	28.11.09	sa	10-1	Presentation of Workshop: Florencia Pita
				<i>Drawing Tutorial II // Digital Modeling Tutorial III (TBA)</i>
December	01.12.09	tu	2-6	Desk Crits
	03.12.09	th	2-6	Desk Crits (Sliver Lecture: Brent Sherwood)
	08.12.09	tu	10-5	Mid-Term w/Greg *tentative
	10.12.09	th	2-6	Desk Crits (Sliver Lecture: Wolf Prix)
	15.12.09	tu	2-6	Inter-Studio Review *tentative
	17.12.09-06.01.10			Winter Break
January	07.01.10	th	2-6	Desk Crits
	09.01.10	SA	2pm	Sliver Lecture: Hans Ulrich Obrist
	12.01.10	tu	2-6	Desk Crits
	14.01.10	th	2-6	Desk Crits (Sliver Lecture: Sanford Kwinter)
	19.01.10	tu	2-6	Desk Crits
	20.01.10	we	10--	Studio Final Review
	21.01.10	th	10--	Diploma Final Review