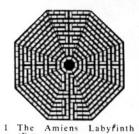
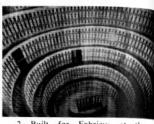
Quasi-Infinities and the Waning of Space



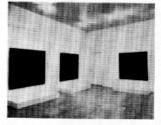


Built for Fabricus at the University of Padua

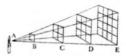
For many artists the universe is expanding; for some it is contracting.

By ROBERT SMITHSON

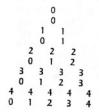
"Without a time sense consciousness is difficult to visualize." J. G. Ballard. *The Overloaded Man*



10 Ad Reinhardt installation (March 1965) Betty Parsons Gallery



9 From Edgar Allan Poe's Eureka



8 A. Discrete Scheme Without Memory by Dan Graham

ROUND FOUR BLOCKS of print I shall postulate four ultramundane margins that shall contain indeterminate information as well as reproduced reproductions. The first obstacle shall be a labyrinth(1), through which the mind will pass in an instant, thus eliminating the spatial problem. The next encounter is an abysmal anatomy theatre'2'. Quickly the mind will pass over this dizzying height. Here the pages of time are paper thin, even when it comes to a pyramid(3). The center of this pyramid is everywhere and nowhere. From this center one may see the Tower of Babel(4), Kepler's universe(5), or a building by the architect Ledoux(6). To formulate a general theory of this inconceivable system would not solve its symmetrical perplexities. Ready to trap the mind is one of an infinite number of "cities of the future(7)." Inutile codes(8) and extravagant experiments⁽⁹⁾ adumbrate the "absolute" abstraction⁽¹⁰⁾. One becomes aware of what T. E. Hulme called "the fringe... the cold walks . . . that lead nowhere."

In Ad Reinhardt's "Twelve Rules for a New Academy" we find the statement, "The present is the future of the past, and the past of the future." The dim surface sections within the confines of Reinhardt's standard (60" x 60") "paintings" disclose faint squares of time. Time, as a color-less intersection, is absorbed almost imperceptibly into one's consciousness. Each painting is at once both memory and forgetfulness, a paradox of darkening time. The lines of his grids are barely visible; they waver between the future and the past.

George Kubler, like Ad Reinhardt, seems concerned with "weak signals" from "the void." Beginnings and endings are projected into the present as hazy planes of "actuality." In The Shape of Time: Remarks on the History of Things, Kubler says, "Actuality is . . . the interchronic pause when nothing is happening. It is the void between events." Reinhardt seems obsessed by this "void," so much that he has attempted to give it a concrete shape—a shape that evades shape. Here one finds no allusion to "duration," but an interval without any suggestion of "life or death." This is a coherent portion of a hidden infinity. The future criss-crosses the past as an unobtainable present. Time vanishes into a perpetual sameness.

Most notions of time (Progress, Evolution, Avantgarde) are put in terms of biology. Analogies are drawn between organic biology and technology; the nervous system is extended into electronics, and the muscular

> HGFEDCBA GHFEDCBA FGHEDCBA EFGHDCBA DEFGHCBA CDEFGHBA BCDEFGHA ABCDEFGH

B. Non-code based on The Ars Magna of Ramon Lull



3 The Pyramid of Meidum



4 The Tower of Babel



5 Kepler's model of the universe



6 Claude - Nicalas Ledoux (1736-1806)



7 "City of the Future"

11 Any art that originates with a will to "expression" is not abstract, but representational. Space is representated. Critics who interpret art in terms of space see the history of art as a reduction of three dimensional illusionistic space to "the same order of space

as our bodies." (Clement Greenberg—Abstract, Representational and so Here Greenberg space" with "our bodies" and interprets this reduction as abstract. This anthropomorphizing of space is aesthetically a "pathetic fallacy" and is in no way abstract.



12 Plate probably drawn for Spigelius (1627)

Although inanimate things remain our most tangible evidence that the old human past really existed, the conventional metaphors used to describe this visible past are mainly biological." George Kubler, The Shape of Time: Remarks on the History of Things

nowhere

mp

nowhere.

,

the pleasure nowhere. let him go to sleep

TUP

John Cage. Silence. Cambridge: M.I.T. Press

"Dr. J. Bronowski among others has pointed out that mathematics, which most of us see as the most factual of all sciences, constitutes the most colossal metaphor imaginable, and must be judged, aesthetically as well as intellectually, in terms of the success of this metaphor." Norbert Wiener, The Human Use of Human Beings

system is extended into mechanics. The workings of biology and technology belong not in the domain of art, but to the "useful" time of organic (active) duration, which is unconscious and mortal. Art mirrors the "actuality" that Kubler and Reinhardt are exploring. What is actual is apart from the continuous "actions" between birth and death. Action is not the motive of a Reinhardt painting. Whenever "action" does persist, it is unavailable or useless. In art, action is always becoming inertia, but this inertia has no ground to settle on except the mind, which is as empty as actual time.

THE ANATOMY OF EXPRESSIONISM(11)

The study of anatomy since the Renaissance lead to a notion of art in terms of biology(12). Although anatomy is rarely taught in our art schools, the metaphors of anatomical and biological science linger in the minds of some of our most abstract artists. In the paintings of both Willem deKooning(13) and Jackson Pollack(14), one may find traces of the biological metaphor (15), or what Lawrence Alloway called "biomorphism (16)." In architecture, most notably in the theories of Frank Lloyd Wright, the biological metaphor prevails(17). Wright's idea of "the organic" had a powerful influence on both architects and artists. This in turn produced a nostalgia for the rural or rustic community or the pastoral setting, and as a result brought into aesthetics an anti-urban attitude. Wright's view of the city as a "cancer" or "a social disease" persists today in the minds of some of the most "formal" artists and critics. Abstract expressionism revealed this visceral condition, without any awareness of the role of the biological metaphor. Art is still for the most part thought to be "creative" or in Alloway's words "phases of seeding, sprouting, growing, loving, fighting, decaying, rebirth." The science of biology in this case, becomes "biological-fiction," and the problem of anatomy dissolves into an "organic mass." If this is so, then abstract-expressionism was a disintegration of "figure painting" or a decomposition of anthropomorphism. Impressionistic modes of art also suffer from this biological syndrome.

Kubler suggests that metaphors drawn from physical science rather than biological science would be more suitable for describing the condition of art. Biological science has since the nineteenth century infused in most people's minds an unconscious faith in "creative evolu-



13 Willem deKooning



14 Jackson Pollack

- 15 The biological metaphor is at the bottom of all "formalist" criticism. There is nothing abstract about de-Kooning or Pollack. To locate them in a formalist system is simply a critical mutation based on a misunderstanding of metaphor—namely, the biological extended into the spatial.
- 16 Art Forum, September 1965. The Biomorphic Forties
- 17 A. The Guggenheim Museum is perhaps Wright's most visceral achievement. No building is more organic than this inverse digestive tract. The ambulatories are metaphorically intestines. It is a concrete stomach.



B. Guggenheim Museum

sist of an intra-psychic flux or train of ideas, which flows 'parallel to' (or is even possibly explicable by) the arrow of time. While M. S. Watanabe convincingly argues that this sense of time is a fact sui generis, others like Grunbaum tend to believe that entropy is the cause of time in man." See The Voices of Time (p. 218), edited by J. T. Fraser, New York: George Braziller, 1966.



19 Alberto Giacometti, The Palace at Four A.M. (1932-33)

tion." An intelligible dissatisfaction with this faith is very much in evidence in the work of certain artists.

THE VANISHING ORGANISM

The biological metaphor has its origin in the temporal order, yet certain artists have "detemporalized" certain organic properties, and transformed them into solid objects that contain "ideas of time." This attitude toward art is more "Egyptian" than "Greek," static rather than dynamic. Or it is what William S. Burroughs calls "The Thermodynamic Pain and Energy Bank" —a condition of time that originates inside isolated objects rather than outside. Artists as different as Alberto Giacometti and Ruth Vollmer to Eva Hesse and Lucas Samaras disclose this tendency.

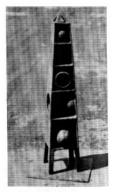
Giacometti's early work, The Palace at Four A.M. (19), enigmatically and explicitly is about time. But, one could hardly say that this "time-structure" reveals any suggestion of organic vitality. Its balance is fragile and precarious, and drained of all notions of energy, yet it has a primordial grandeur (20). It takes one's mind to the very origins of time—to the fundamental memory. Giacometti's art and thought conveys an entropic view of the world. "It's hard for me to shut up," says Giacometti to James Lord. "It's the delirium that comes from the impossibility of really accomplishing anything (21)."

There are parallels in the art of Ruth Vollmer to that of Giacometti. For instance, she made small skeletal geometric structures before she started making her bronze "spheres," and like Giacometti she considers those early works "dead-ends." But there is no denying that these works are in the same class with Giacometti, for they evoke both the presence and absence of time. Her Obelisk (22) is similar in mood to The Palace at Four A.M. One thinks of Pascal's "fearful sphere" lost in an Egyptian past, or in the words of Plotinus the Stoa, "shadows in a shadow (23)." Matter in this Obelisk (24) opposes and forecloses all activity—its future is missing.

The art of Eva Hesse is vertiginous and wonderfully dismal⁽²⁵⁾. Trellises are mummified, nets contain desiccated lumps, wires extend from tightly wrapped frameworks, a cosmic dereliction is the general effect. Coils go on and on; some are cracked open, only to reveal an empty center. Such "things" seem destined for a funerary chamber that excludes all mention of the living and the dead. Her art brings to mind the obsessions of the pha-

20 The following is part of a manuscript that describes The Palace at Four A.M. It was dictated by Giacometti to André Breton for publication in the magazine Minotaure (No. 3-4, 1933, p. 42) and later translated by Ruth Vollmer into English (see the magazine Transformation published by Wittenborn). "This object has taken form little by little; by the end of summer 1932 it clarified slowly for me, the various parts taking their exact form and their particular place in the ensemble. Come autumn it had attained such reality that its execution in space did not take more than one day." He also goes on to say, "... the days and nights had the same color, as if everything happened just before daybreak. . . ."

21 A Giacometti Portrait, The Museum of Modern Art



22 Ruth Vollmer, Obelisk (1962)

23 Quoted from Enneads, in Concepts of Mass in Classical and Modern Physics (Harper Torch Book TB571) by Max Jammer, page 31. On the same page Jammer goes on to say, "Proclus, the other great exponent of Neoplatonism in the East, accepts Plotinus' doctrine, but with one important modification: the passivity or inertia of matter follows from its extension." The decline of the categories of "painting" and "sculpture" seem to be the result of this problem of spatial extension from matter. Space becomes an illusion on matter.

"In principle, nothingness remains inaccessible to science." Martin Heidegger, An Introduction to Metaphysics

"The unity of Nature is an extremely artificial and fragile bridge, a garden net." T. E. Hulme, Cinders

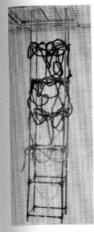
"It came to him with a great shock that not one of the robots had ever seen a living thing. Not a bug, a worm, a leaf. They did not know what flesh was. Only the doctors knew that, and none of them could readily understand what was meant by the words 'organic mattert.' Michael Shaara, Orphans of the Void

24 A. For further edification concerning obelisks see A Short History of the Egyptian Obelisk by W. R. Cooper. London: Samuel Bagster and Sons, 1877. "The first mention of the obelisk, or Tekhen, occurs in connection with the pyramid: and both are alike designated sacred monuments on the funereal stele of the early empire, and also were undeniably devoted to the worship of the sun: occasionally the obelisk was represented as surmounting a pyramid, a position which it has never actually been found to occupy."

B. The New York Obelisk—Cleopatra's Needle by Charles E. Moldenke, New York: Anson D. F. Randolph and Co. 1891. "We know of the Obelisk of Karnak, erected by Queen Hatasu, that the apex of its pyramidion was covered with pure gold".

C. Cleopatra's Needles and Other Egyptian Obelisks by Sir E. A. Wallis Budge, London: The Religious Tract Society, 1926. Regarding obelisks in Rome: "The brass globe which had been fixed on the top of the obelisk when Caligula set it up was removed; it was empty, though many believed that it would be found to contain valuable objects."

D. Salambo by Gustave Flaubert, a Berkeley Medallion Book, 1966. Regarding obelisks in Byrsa: ". . . obelisks poised on their points like inverted torches."



25 A. Eva Hesse, Loakoon, 1965

"The individual is the seat of a constant process of decantation, decantation from the vessel containing the fluid of future time, sluggish, pale and monochrome, to the vessel containing the fluid of past time, agitated and multicolored by the phenomena of its hours." Samuel Beckett, Proust

A. Don Judd has been interested in "progressions" and "regressions" as "solid objects." He has based certain works on "inverse natural numbers." Some of these may be found in Summation of Series by L. B. W. Jolley, a Dover paperback.



B. Pergamen? Loakoon

C. In her Loakoon based on the sculpture by Pergamen? second century B.C. we discover an absence of "pathos" and a deliberate avoidance of the anthropomorphic. Instead one is aware only of the vestigital and devitalized "snakes" looping through a

lattice with cloth bound joints. Everything "classical" and "romantic" is mitigated and underminded. The baroque aesthetic of the original Loakoon with its flowing lines—soft and fluid—is transformed into a dry, skeletal tower that goes nowhere.

raohs, but in this case the anthropomorphic measure is absent. Nothing is incarnated into nothing. Human decay is nowhere in evidence.

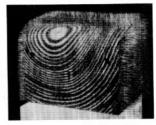
The isolated systems Samaras⁽²⁶⁾ has devised irradiate a malignant splendor. Clusters of pins cover vile organs of an untraceable origin. His objects are infused with menace and melancholy. A lingering Narcissism⁽²⁷⁾ may be found in some of his "treasures." He has made "models" of tombs and monuments that combine the "times" of ancient Egypt with the most disposable futures of science fiction.⁽²⁸⁾

TIME AND HISTORY AS OBJECTS

At the turn of the century a group of colorful French artists banded together in order to get the jump on the bourgeois notion of progress. This bohemian brand of progress gradually developed into what is sometimes called the avant-garde. Both these notions of duration are no longer absolute modes of "time" for artists. The avant-garde, like progress, is based on an ideological consciousness of time. Time as ideology has produced many uncertain "art histories" with the help of the mass-media. Art histories may be measured in time by books (years), by magazines (months), by newspapers (weeks and days), by radio and TV (days and hours). And at the gallery proper-instants! Time is brought to a condition that breaks down into "abstract-objects (29)." The isolated time of the avant-garde has produced its own unavailable history or entropy.

Consider the avant-garde as Achilles and progress as the Tortoise in a race that would follow Zeno's second paradox of "infinite regress(30)." This non-Aristotelian logic defies the formal deductive system and says that "movement is impossible." Let us paraphrase Jorge Luis Borges' description of that paradox. (See Avatars of the Tortoise): The avant-garde goes ten times faster than progress, and gives progress a headstart of ten meters. The avant-garde goes those ten meters, progress one; the avant-garde completes that meter, progress goes a decimeter; the avant-garde goes that decimeter, progress goes a centimeter; the avant-garde goes that centimeter, progress, a millimeter; the avant-garde, the millimeter, progress a tenth of a millimeter; and so on to infinity without progress ever being overtaken by the avant-garde. The problem may be reduced to this series:

 $10 + 1 + 1/10 + 1/100 + 1/1000 + 1/10,000 + \cdots$



26 Lucas Samaras. Untitled, 1963

- Self love. self - observation, self-examination, and self-awareness result in an isolated mind. This kind of mind would tend to produce a fic-titious "reality" detached detached from organic nature. Mon-sieur Teste by Paul Valery is perhaps the greatest elucita-tion of Narcissism. "He watches himself. he maneuvers, he is unwilling to be maneuvered. He knows only two values, two categories, those of consciousness reduced to its acts: the possible and the impossible. In this strange head, where philoso-phy has little credit, where language is always on trial, there is scarcely a that is not accompanied by the feeling that it is tentative. . . .
- 28 In 13 French Science-Fiction Stories edited by Damon Knight (Bantam paperback (F2817) is a story by Charles Henneberg called Moonfishers. "The Interplanetarians were landing in these sands. They were of many kinds. Much later, the Pharaoh Psammetichus III noted: "They fell from the sky like the fruits of a fig-tree that is shaken: they were the color of copper and sulphur, and some had eyes."
- 29 The following book elucidates this idea: Abstraction and Empathy by Wilhelm Worringer, London: Routledge and Kegan Paul Ltd., 1933; translated from the German Abstraktion und Einfuhlung, 1908. "In so far, therefore, as a sensuous object is still dependent upon space, it is unable to appear to us in its closed material individuality." And "Space is therefore the major enemy of all striving after abstraction..."

