ute meta bauer & thomas d. edited

ecology of the place – river as recording device gediminas urbonas & nader tehrani

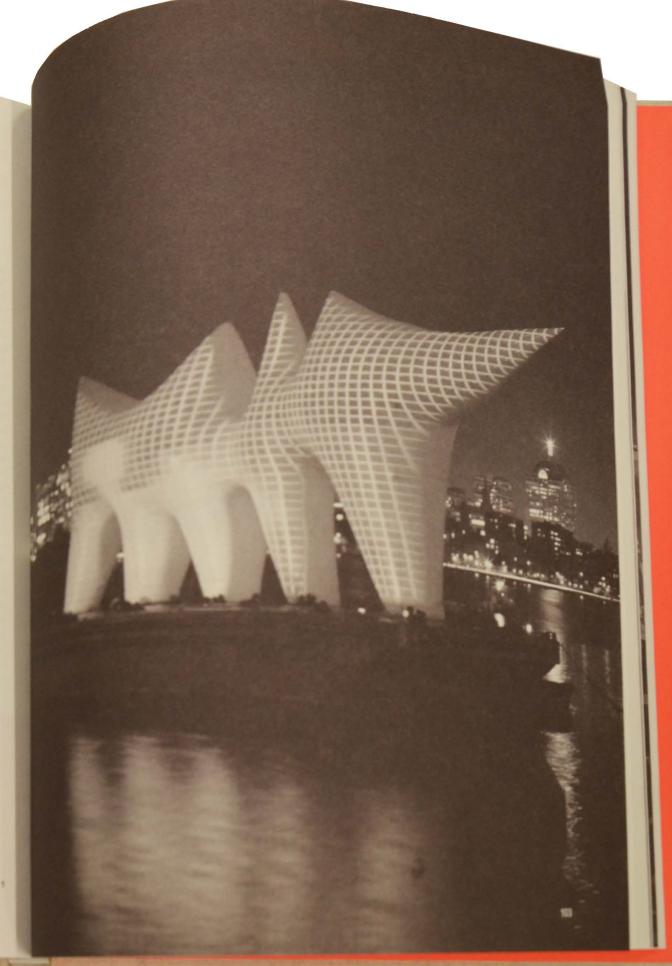




fig 3



MANU ATE TO PRESENT M. F. TOWARDS THE CHARGE BURE. MAIN PROVINCE IN THE STRAT COURT AND MAY LANGUE. MAIN ATE TO PRESE HATE A GUIST BANK - No FRANKS.





- fig 1 Gediminos Urbonos and Noder Tehroni NADANA, the Charles River, infractioi, interactive video pro-jection, infrared tracking system, boxied Kinest, MIT 150, May 2014.

  Sig 2 Gediminos Urbonos, Lavaro Accivir, danch for pub-lic spoce with water purification and animaling pool of the Charles River, FAST-Petrival of Art, Science and Technology for MIT 150, 2010.

  Sig 1 Gediminos Urbonos, MIT 150, 2010.
- and Technology for MIT 150, 2010.

  Ng 3 Gerlininas Urbanas, useura ascent, sketch for pub-Sc space with water purification and seimning pool of the Chorles River, FAST-Festival of Art, Science and Technology for MET 1951, 2010.

- Ng 7 River Research file: Juan Navarro-Baldeweg, Icna systems, application of a climatic control system floating in New York Harbor, CHARLES RIVER PROJECT, 1971.
- fig 8 River Research file: Michio Diozo, Floating Walkwa System, Charles River Project, 1974

"... Participants would experience many audio, tactile, and rhythmical characteristics of water while keeping dry. Events such as swimming in pockets within the containers, sliding, jumping, [and] relaxing all would be accented by the reverberating motion of the container. As individuals move on one area this motion would reverberate throughout the entire container thereby all participants sharing the movement of others..." 1

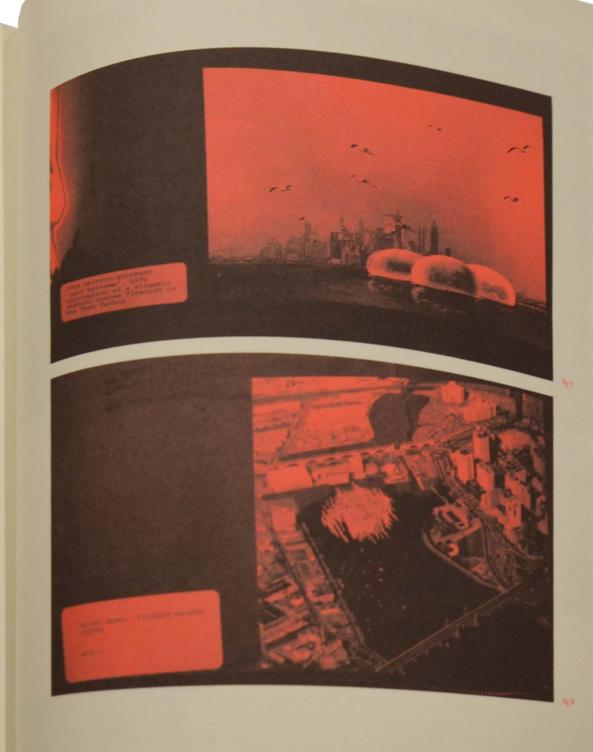
That is how Howard York described his proposal Topographic Water Landscapes for a public intervention at the Charles River in Boston in 1972. Responding to György Kepes's invitation to address the inhuman scale of urban development that took place during the 1950s and 1960s in American cities—and Boston in particular—artists, architects, and designers developed suggestions aiming to mitigate the enormous scale of environmental damage that came along with it.

These proposals are at the core of the Center for Advanced Visual Studies (CAVS) Archive at Massachusetts Institute of Technology (MIT), constituting the collection of idea-scenarios for the Charles River Project. It was a major collaborative effort centered upon a large-scale environmental project "aiming to give rich contemporary meaning to a river that interfaces a densely populated urban area." According to Kepes, the "river is the only aspect of our urban environment that has not yet been parceled out into real estate or butchered by human insensitivity and carelessness." Thus the project aimed to address public attention on the neglected aesthetic and human significance of the Charles River and contribute to higher awareness of environmental values.

Kepes approached the river as a recording device that renders "distant memories and thus gives to the urban citizens a most needed sense of freedom." His project explored five aspects, including: "... the first was the development and combination of long overdue pollution abatement measures with form solutions that offered a more intimate and richer visual connection with the river. ... The second aspect of the project sought to develop ways of utilizing water as an artistic medium by creating individual forms and events that could bring joyful focal points to the banks of the river and help to transform the river surroundings into a new kind of water park, a contemporary democratic Tivoli ... "3

Some proposed and never-realized idea-scenarios comprised the starting point of our research work, grounded in an interest in rendering agencies that move towards the "civic and environmental" as forms that resonate and reflect Kepes's ethics. <sup>4</sup> Aiming to produce a proposal for an intervention on a "civic scale," we started from examining the history of interventions to the Charles River—be they industrial, military, scientific, pedagogical, or artistic. We were looking for projects that embraced the "environmental" and what was suggested by Kepes as the "civic" dimension of art. We were looking for speculative forms that try to question the "contemporary democratic Tivoli." <sup>5</sup>

Central to these debates, especially within the context of the CAVS, was the role that new technologies could play in mitigating the hazards of industrialization and developing a more sustainable human environment. Informed by the cybernetic discourse of self-regulation, feedback loops, and homeostasis, advocates of the links between art and technology such as Kepes saw the potential for artists to collaborate with scientists and engineers to create what he called "ecological feedback machines that sense our danger and work toward resolving the problem of man's relations with his surroundings." 4



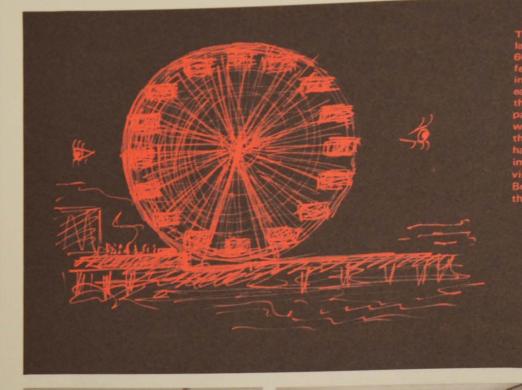






fig 10

fig 11

## Fig 9 River Research file: György Kepes, FERRIS WHEEL, IDEA

- fig 10 Nader Tehrani: NADAAA, Proposal for inflatable public space with water purification and swimming pool at the Charles River. FAST - Festival of Art, Science and Technology for MIT 150, 2010.
- fig 11 Nader Tehrani: NADAAA, Proposal for inflatable public space with water purification and swimming pool at the Charles River. FAST - Festival of Art. Science and Technology for MIT 150, 2010.

In an essay entitled "Art and Ecological Consciousness," which was published as the intro-In an essay entitled Arrang Temography Contestances, which was published at the introduction to Arts of the Environment, Kepes writes; The human body has an inbuilt self-deless,
and along the introcological mechanism that protects it from extreme imbalance. We have been self-deless, duction to Arts of the Environment, respect writes. The human body has an inbuilt self-defense a physiological mechanism that protects it from extreme imbalance. We have began to see that extreme the human deplets in a physiological mechanism mar protects it mean extreme unbalance. We have began to see that our extended body, our social and man-transformed environment, most develop in own selfour extended body, our social and man-transformed environment, most develop in own self-regulating mechanisms to eliminate the poisons injected into it and recycle useful mental homeostasis on a global scale is now necessary for survival. Ottobic mental factor for regulating mechanisms to enumerate the ponous injected into it and recycle useful matter. Facilities sensibility, can be seen as one of our basic, collective, self-regulating denice at

vironmental homeostans on a geodan water is now necessary for survival. Creative image artistic sensibility, can be seen as one of our basic, collective, self-regulating device, "?"

He thought that one such device would be a water purification. He thought that one such device would be a water purification system that could replace the river, at the same time exposing the relentless process of laborance. He thought that one such ourse would be a water purification system that could replace public art at the river, at the same time exposing the relentless process of labor to visualize the public art at the river, at the same time exposing the retention process of labor to viscalize the ecological condition of enslaved and contaminated nature. Thus the large-scale emissions the exposition of sensibilities where the layers of human interpretable. ecological condition of ensured and contaminated nature. Thus the large-scale environmental form could become an educator of sensibilities where the layers of human intervention tecorded form could become an equivalent of secondary where the tayers of human intervention recorded in the sediment and other toxic traces would provide material for the archive. The public could as an "active participant in the educational setting and thus help to detail to the public could be active." be engaged as an "active participant in the educational setting and thus help to develop a long

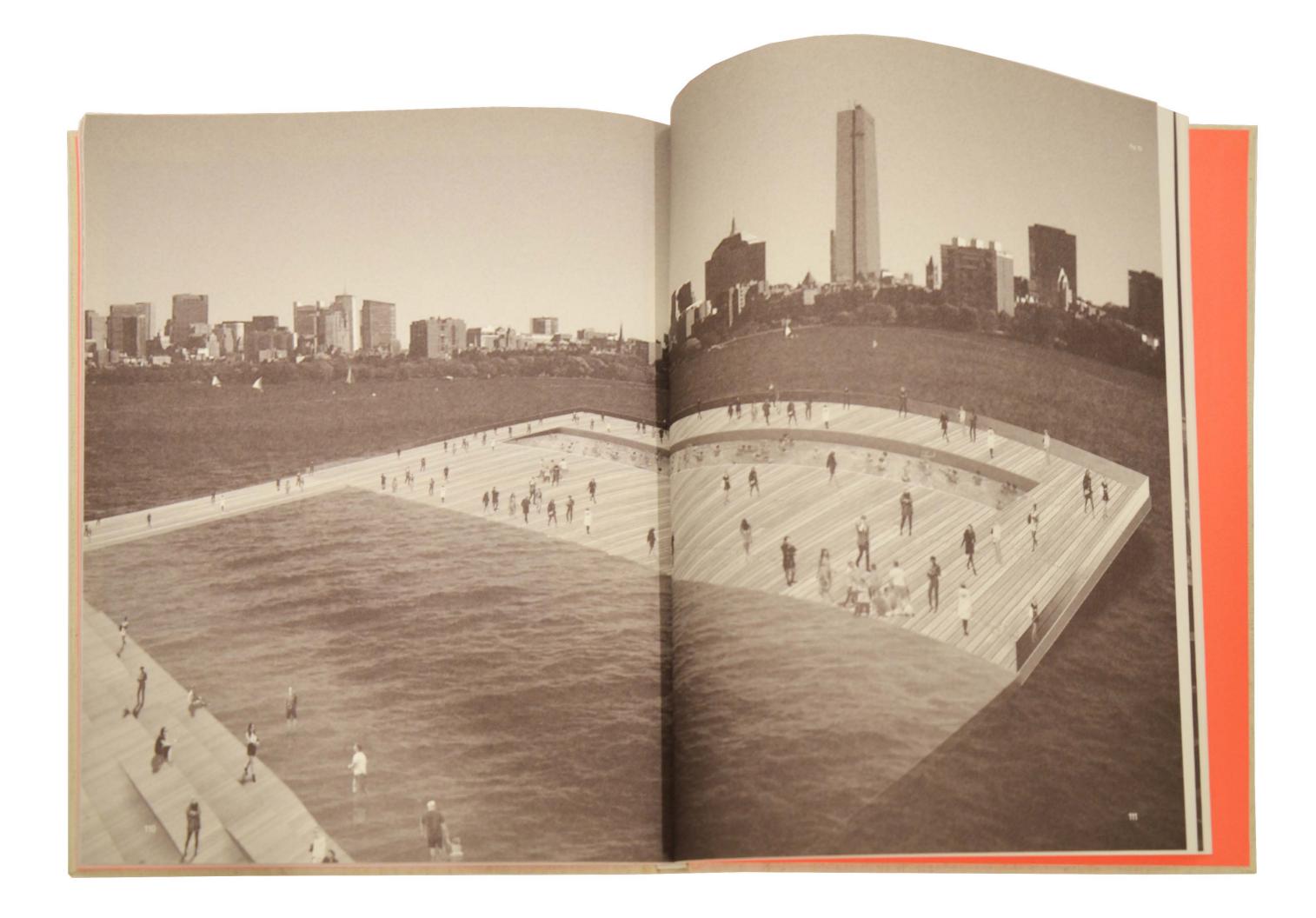
The first iteration of Liquid Archive (2010—ongoing) was conceived as a water (purification) The first iteration of Lagrange Tourist Court, Disgoing was conceived as a water (purification) pavilion and participatory program for the Charles River, opening up from Memorial Drive as pavilion and participatory program as a continuation of MIT's Killian Court. Project insisted on closing Memorial Drive as a continuation of MIT access to the river and turns off the public life of the incine. road that blocks MIT access to the river and turns off the public life of the institute with its back to the river as catalyst for visual, recreational, and social imagination. In the content of MIT's to the river as catalyst for visital, sectional, and social imagination. In the content of MIT's 150th anniversary, the aim of Liquid Archive was to research the understanding of the techno-ecological turn as recorded in the CAVS project, an ecological condition they attempted to develop public angreness on the CAVS. logical turn as recorded in the property and their unrealized attempts to develop public awareness on the Charles River by at the time, and the control of participatory and spectacular scenarios. During May to August 2011, the Liquid Archive program was to animate the pavilion, performing a "score" composed of unrealized idea-

Mirroring MIT's Great Dome, the pavilion is envisioned as an inverted half-cylinder that presses into the water of the Charles River, allowing visitors to be physically and conceptually submerged in the river. The form of the pavilion—co-designed by NADAA (Nader Tehrani) and Urbonas Studio (Nomeda and Gediminas Urbonas)—resonates the idea of an "acoustic mirror." In the act of "listening to the environment," the pavilion captures the ripples of 1970s environmental art—equally significant for the history of MIT and the CAVS and to designers, arists, and community groups concerned with contemporary forms of techno-ecology.

The program unfolds through three acts:

ACT 1—Scenario: A "score" is composed using project proposals from the CAVS Archive that is performed over the course of one hour. A "steam" cloud accumulated from a steam generator will be rendered as a 3-dimensional projection screen for laser screenings. Artists whose proposals may be included are: Otto Piene, Takis, Wen-Ying Tsai, Harold Tovish, Jack Burnham. Red Kraynik, Wiffiam Garnett, Satn Vanderbeek, Michio Ihara, Lowry Burgess, Charles Frazier, Maryanne Amacher, Rockne Krebs, Bill Parker, Douglas Davis, Athena Tacha, Friedrich St. Florian, Juan Downey, Alejandro Sina, Paul Earls, Stanley Resnicoff, and others.

The performance of the score will showcase the reanimated technologies enabling the pro-



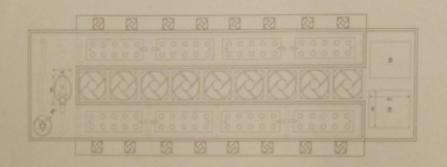


fig 13

jections (many of them further developed at MIT such as holography, laser, and video) and outjections (many of them further developed at MIT such as holography, laser, and video and the past but also the future of the archive, the pavilion will also engineer continuous fellows who helped enablish armadications and the archive the pavilion will also engineer continuous to an increase the laborations between artists and scientists that made their use possible. Across seed and only the past but also the future of the archive, the pavilion will also engineer case and an experience to benefit from this law continues to benefit from this law continues around a MIT. aboration only the past but also the future of the archive, the pavison will also engineer countries to between the former CAVS fellows who helped establish transduciplinary armork as well and according to benefit from this legacy, including cames and according cames according cames according to the according cames and according cames according to the according to the accor between the former CAVS fellows who helped establish transdaciplicary and establish younger generation that continues to benefit from this legacy, including content and establish transdaciplicary and establish transda

Also available for public use during the grand opening will be a set of cases the during the grand opening will be a set of cases the set of cases and set of cases and set of cases are set of cases and set of cases are set of cases and set of cases are set of c Also available for public use during the grand opening will be a set of cases body wear (helmets, suits, and water walkers) equipped with speakers resonanted by the set of cases and suitance's experience of the archive floating in the second secon body wear (helmets, suits, and water waters) equipped with speakers resonant for any and vibrations, enhancing the audience's experience of the archive floating in the speaker water conditions in the Charles River, transfers in the water The and vibrations, enhancing the authence's experience of the archive floating to the body wear will render data regarding water conditions in the Charles River, translating the brain and parts of the body, and exploring a wide translating it into body wear will render data regarding water conditions in the Charles Kiner, translating the brain and parts of the body, and exploring a wide transplanting in the charles Kiner, translating in the charles Kiner

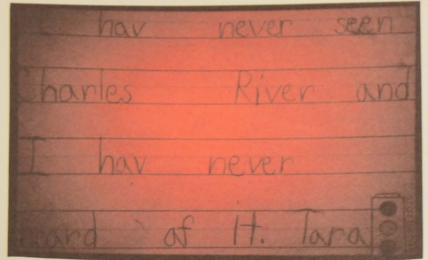
ACT 2—Learning the CAVS Archive: Events held by invited community groups Over the course of a three-month period, the large-scale environmental form of the partial states of the parti Over the course of a times month period, the targe-scale environmental form of the partial total of the partial vilion will be transformed into an equicator of seminances by presenting unrealized are partially groups and agencies, the pavilion will become a public educational series described matrix. from the CAVS Archive in imaginative, majory synzer forms. Through the participation of some community groups and agencies, the pavilion will become a public educational technique of some and artistic responses as a literal and metaphorical extension of MIT's educational technique despenses. community groups and agents and activate unrealized works from the CANS Arbins. Invited groups will interpret and activate unrealized works from the CANS Archive, which will

ACT 3 —Floating environmental project and sound-light laboracy ACT 3—Floating environmental property and application problems of the lab will be utilized to educate young and old regarding pollution problems. Scenario: The tab war of the control of the control of the charles River, as well as projects underway to mitigate these inner. Pollution problems in the Charles River, as well as projects underway to mitigate these inner. Pollution monitoring devices would be on board, allowing the facilities to be used for minimum. and interpreting devices would be on board, allowing the facilities to be used for various educaand interpreting out of the second purposes. Another aspect is re-thinking of mitigation and the section.

Extending the research of various CAVS fellows for the section. tion of artists' legacies. Extending the research of various CAVS fellows (for instance, Elisabeth Goldring, Wendy Jacob), an event engaging children and adults with learning or steering disorders will be organized a Using the Section 655. culties, autism, and spectrum disorders will be organized. Vising the facilities of the floring beparticipants will explore and interrogate the legacy of environmental mitigation, as advanced by

"Sound and Light Water Dome

Under a large (60'-100' dia.) clear pneumatic dome filtered water from the Charles Fine would be pumped above the dome. Sounds of water under its own weight and the rival senation of the refracted and reflected light would be the prime experiences under the dome. The sensetion of viewing the cosmos from an underwater environment should magnify the participants' personal nation treats earth and space, while reuniting him with the personality of water ""



- Big 15 Urbonos Studio, MIST MACHINE, water purification and misting system for screening. Prototype list no. 1, ACT, MIT, 2012.

  Big 16 Urbonos Studio and Nader Tehrani: NADAAA, Liquid ARCHIVE, MIST MACHINE, water purification and misting system for screening, video projection and CHARLES RIVER PROJECT slide collection. Installation of the CHARLES RIVER PROJECT slide collection. Installation view, THE FUTURE ARCHIVE, Neuer Berliner Kun (n.b.k.), Berlin, 2012.





- 1 Howard York, "Proposals For The Charles River" (1972). 7 Ibid. CAVS Archive, ACT, MIT. (Consulted 07.01. 2010.)
- chive, ACT, MIT. (Consulted 07.01.2010.)
- 1 Ibid.
- Arts, Smithsonian Institute, 1970), unpaginated.
- 5 Kepes, "A report on the work in progress at the Center 07.01.2010.) for Advanced Visual Studies" (1972).
- 6 Gybrys Kedes, arts of the environment (New York: George Broother, 1972).

- 8 Ted Kraynik, "Proposal for the Charles River Project" 2 György Kepes, "A report on the work in progress at (1972), CAVS Archive, ACT, MIT. (Consulted 07.01.2010.) the Center for Advanced Visual Studies" (1972). CAVS Ar- 9 In 1972 Immo Red organized workshop with children ages 5-10, asking them to write a short essay about the Charles River. The slide show recording their impressions 4 György Kepes, "Toward Civic Art," in explorations, part was proposed to be screened during an open-air festival a (seth. cet.) (Woshington, DC: National Collection of Fine near the Charles River. Immo Red, "Proposal For The Charles River" (1972). CAVS Archive, ACT, MIT. (Consulted
  - 10 York, "Proposals For The Charles River" (1972).

