

# Book Design

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# BLINKY PALERMO

## ABSTRACTION OF AN ERA

Christine Mehring

# 1

## OBJECTS, 1964-1974

### PAINTING AWAY THE GERMAN WAY OF PAINTING



partner, Franz Dahlem, had opened their gallery three years earlier and had quickly turned it into a leading venue for contemporary art by Americans and young Germans. The gallery's stable of artists during the 1960s included Dan Flavin, Walter De Maria, Fred Sandback, and Gerhard Richter, and landmark installations such as De Maria's *Earth Room* and Mo Hoehner's *Measurement Room* were first made for its rooms. Dahlem left the gallery a year after Palermo's first exhibition there, and Friedrich subsequently ran it with his wife, Sixa Friedrich, under the name Galerie Heiner Friedrich, with additional help later on from Fred Zahn and Sabine Kunst. In 1970 a branch was opened in Cologne under the directorship of Theodor Moller. Palermo developed close ties with all the dealers,

Friedrich and Moller in particular, and he exhibited at their galleries throughout his lifetime, even following Friedrich to New York, where the dealer established a New York branch and eventually founded the Dia Art Foundation with his new wife, Philippa de Murrell.<sup>17</sup> If Beuys facilitated Palermo's entry into the German art world, that world in turn began to see Palermo solely in terms of Beuys. Palermo reportedly believed that his role as Beuys's *Meisterstuehler* distorted the perception of his paintings, yet exhibition catalogues from the 1970s on consistently repeated this information in their biographies.<sup>18</sup> Usually an artistic kinship between teacher and student was forged more subtly though, for example through the inclusion in the 1973 exhibition and catalogue surveying Palermo's objects of a passage from

James Joyce's *Ulysses*, which had been suggested by Palermo, loan vertically against the wall in fairly even intervals. The allusion to Beuys's installations of long, angled staves wrapped in felt leaning against a wall, well known from exhibitions such as *Documents 4* (fig. 14), is blatant. Unlike the *Ulysses* reference, though, the staff was on Palermo's mind too.

**PAINTED STAFFS, FOR J. BEUYS** Surely the most important lesson Palermo learned from Beuys was to ask, as Beuys did, "why forms look certain way?" what types of materials are used and why, what they provoke, what they bring about.<sup>19</sup> This lesson bore fruit only later, though, in groups of works that are related not in stylistic terms but through their historically meaningful use of abstract

ible supports that stick out from an open expanse of white wall, making them appear to be hovering there.<sup>20</sup> With its irregular outline, slightly asymmetrical shape, and installation high on the wall, *Graue Scherbe*, like three similarly shaped objects from 1970, seems reminiscent of a cloud; indeed, Palermo and his friends apparently referred to it jokingly as a *grau Wolke*, "gray cloud." In fact, a high school friend, Herbert Nolte, described a job played on Palermo by his friends, including Richter and Tadonez, while the artist was installing *Graue Scherbe* for an important visit by the collector Karl Stroher. "When he [Palermo] happened to be away, they took down the cloud. And they had these hydraulic elevators to arrange their paintings, and they hung it up three meters high on the wall. And then [when he returned] they drove him all the way up to the ceiling of the hall with this hydraulic thing and let him weigh them."<sup>21</sup> With the spiritual aspect pushed toward a literal, childlike representation of the sky, we join Palermo and his friends in having a good laugh at the absorption of abstract artists in the spiritual realm.

**THE GERMAN WAY OF PAINTING** Some of Palermo's objects interweave the full spectrum of the cultural references we have been exploring in this chapter—the art of Beuys, German Romanticism, expressionism, and the spiritual—through a combination of features, such as irregular outlines or the color blue. The most important of these is an untitled object now in the collection of the Dia Art Foundation (fig. 36).<sup>22</sup> Palermo revisited it at least once three years after he first made it notes and a sketch on the verso reveal that he corrected the original date of 1964 to 1967 and abandoned his original idea of juxtaposing it with a square-shaped object.<sup>23</sup> Palermo cared about this unusual work: an orange vertical staff just over two meters in length that supports five slightly irregular white rectangles of different sizes, each painted with the fragment of an upward-facing blue triangle.

The Beuysian staff, the Romantic fragment, and the signature triangle meet to form a manifesto-like work in which Palermo appropriates and joins the major components of his objects. The artist here too challenged his beginnings by familiar means: the staff as the ground for painting (now for attaching a set of mini-paintings), conspicuous color, chopped-off triangles, irregularities of manual making, seriality, and the like.

Why did Palermo take on Beuys, Romanticism, expressionism, and the spiritual all together here, and again and again over the ten years he was making objects? For Palermo, what was at stake was nothing less than the status of German art—its definition, legacy, and prospect—for these traditions, mediated by Beuys and other contemporary artists, formed the pillars of modern art in Germany. In his series of essays entitled "German Art: A New Generation" dating from the late 1960s and early 1970s, the critic Rolf Gierstl-Desseu lamented that expressionism had come to define the international image of German art.<sup>24</sup> In a political and cultural climate eager to reconnect with the country's prewar past, expressionists dominated the first *Documents* exhibition in 1955, a landmark in the formation of the post-National Socialist German art world. At the same time, expressionist painting experienced a revival among young abstract painters. The four artists of the *Quadriga* group—K. O. Götz, Otto Greu, Heinz Kretzsch, and Bernhard Schultze—made their debut on the German art scene in 1962 with the exhibition *Neu-Expressionisten* at the *Zimmergalerie Frank* in Frankfurt, showing large-scale abstract paintings filled with demonstrative brushwork and theatrical gestures.<sup>25</sup> Later, informed by Tachist painting, originally developed in Paris by German expatriates Wols and Hans Hartung among others, became popular in Germany; it was exhibited, for example, at *Documents 2* in 1959, and it was quickly institutionalized: marketed by important dealers like Zeum-Pierre Wilhelm, collected by major museums, and taught at the leading academy GÖTTA and the Informel-inspired sculptor Gerhard Hoehne accepted teaching positions at the Düsseldorf

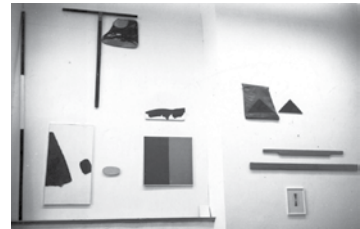


Fig. 14. *Meisterstuehler* (1965), from Blinky Palermo, *Documents 4*, 1964-1974, p. 48



Fig. 16. Joseph Beuys, room at *Documents 4*, 17 June-6 October 1964, with twelve three-lengths from earlier versions, including



*Experimentelle Skulptur (Staffel)* and *Funktional (Pink Angled Staff)* from 1964-67; *Teil of Black Boxes*, *Heinrichs Landhausraum*, Darmstadt.



Fig. 36. Untitled (DFA 36), 1964-67. Canvas on beech wood, 208.8 x 211 x 12.2 cm. Dia Art Foundation, New York



Fig. 48. Strohman (Nov 1955, 1957). Cotton, wall panel 200 x 200 cm. Frankfurt am Main, Munich.



Fig. 49. Palermo exhibition, Galerie Konrad Fischer, Düsseldorf 6 March 1968.

color fields, because there were ink spots on it; others may have been destroyed or damaged because they did not include the protective canvas interleaf, which was the case, for example, with a last pink and orange cloth picture.<sup>48</sup> By the same token, we have to consider that many of the cloth pictures extant today may have faded to varying degrees.<sup>49</sup>

If some of the earlier works are less colorful, Palermo nonetheless found a place for them in his exhibitions. The cloth pictures initially appeared as individual pieces alongside other early work in Palermo's semester exhibitions at the Kunstakademie Düsseldorf in 1966 and 1967 in his second one-man show at the Galerie Heiner Friedrich in 1967, and in his first small museum exhibition at the Van der Heydt-Straeten in Wuppertal in 1968. But gradually the artist began showing his work groups separately, and according to his wishes Storch's posthumous 1977 exhibition at Krefeld and the February 1968 exhibition at the Galerie Konrad Fischer in Düsseldorf were dedicated to cloth pictures alone.<sup>50</sup>

In his typically carefully orchestrated hanging of seven cloth pictures at Galerie Konrad Fischer, Palermo alternated cloth pictures that had intense, bright colors with others that had more restrained colors. In a photograph from the Fischer archive (fig. 41), we can identify a last brown work, followed by the 1968 red and blue cloth picture (fig. 42), a last middle blue, light blue, and middle blue piece that is clearly made of similar materials as the surviving middle blue and light blue cloth picture, and a last pink and orange work. The three works on the facing wall were the 1967 red and pink-red cloth picture including a satin material (fig. 43), the 1968 black and brown cloth picture, and the green and dark green cloth picture of the same year (fig. 44).<sup>51</sup> While changing the color schemes, Palermo connected the cloth pictures visually by coordinating the types of color-field divisions. On one wall he alternated a small top band with a small bottom band, on the other wall he hung only works that had small top bands. The narrow, elongated gallery space (it was a little over two and a half meters wide but more

than ten meters long) may have inspired and facilitated this serial hanging and, along with the tight spacing of about thirty centimeters between cloth pictures, it would constantly have forced viewers to look at several works at once.

The exhibition was a celebration of colors. Reviewers remarked upon their variety and strong saturation and referred to Palermo's "vokier radicalism."<sup>52</sup> The variety increased as more cloth pictures were hung together and the "pure color masses" became color combinations—grayscale, ranging from brilliant to saturated—traverse our desire to describe (beyond, but also their changing effects according to the viewer's position and the light conditions).<sup>53</sup>

Few contemporary reviewers failed to note that Palermo's colors were "undefined"; he used only "found"—and fashionable—colors. Peter Bode from the Süddeutsche Zeitung, who wrote the only review of the first two one-man exhibitions, at Galerie Friedrich + Dahlem and Galerie Heiner Friedrich, dismissed Palermo's work as decorative. Referring to some no longer extant precursors of the cloth pictures, he mocked in 1966, "Palermo's silliest job is to stretch canvas over wood only to decorate it with assignments green (Biedergrün) and shell purple [Schal-grün]."<sup>54</sup> A year later, regarding an exhibition that definitely included cloth pictures, he quipped,

"Palermo is not sure yet whether he wants to be a painter, an interior decorator, or a cold man of minimal art."<sup>55</sup> One of Palermo's friends remarked to me, with respect to the earliest surviving cloth picture, "Pink and red was chic at its" (fig. 45).<sup>56</sup> Palermo shopped in the department store, not the artist's supply store, selecting his colors from what was available in the fabric departments around Düsseldorf and Mönchengladbach.

Following the preference for soft pastel colors in the 1950s, German stores in the 1960s—like their counterparts throughout Western Europe and the



Fig. 45. Fashion show at Galerie Friedrich + Dahlem, Munich, with the first cloth picture later featured in the background, c. 1960-61. Photograph by Thord Miller.

United States—began stocking articles in precisely the bright shades that Palermo's cloth pictures capture. "Bunt" was all the rage for home decoration, clothing, and advertising alike (figs. 46, 47). A contemporary interior design manual notes, "The popularity of intense and bright colors, which are hardly toned down at all and stand out clearly as color accents, derives from the style of our time."<sup>57</sup> The 1968 trade fair for furniture was described by one contemporary as "a great LSD color trip. . . . The whole furniture fair assembled an inferno of hellish red, orange-yellow, sugar-pink, blinding green, and midnight blue."<sup>58</sup> Interior design and architecture magazines like Architektur Wohnen (similar to Better Homes and Gardens), Raum + Wohnen, and Das Bau ran advertisements for carpet manufacturers competing to offer the widest range of color choices. And a German furniture maker developed a self-adhesive foil that allowed customers to change the colors of their cabinets and tables periodically; in fact Palermo used this foil, known as Decorex, for a 1971 variation on his cloth pictures (see fig. 109).<sup>59</sup>

Colored illustrations were still expensive and therefore somewhat rare in German magazines, but the advertising industry exploited eye-catching colors wherever possible, for Volkswagen Beetles and paintballers alike—and, of course, on the new color television, broadcast into German living rooms starting in August 1967. Six Friedrich, at that time the wife of Palermo's dealer Heiner Friedrich, recalls, "We made photographs in front of [Palermo's] pictures and probably also [Dad's] party."<sup>60</sup> These photographs were in fact fashion shoots. Six Friedrich, Thord Miller, and another woman remembered by Miller only as Evli were captured by the camera of Thord Miller, sister of Thord's and a professional fashion photographer, probably sometime in 1966. The three young women model mini-dresses designed by Evli in front of a series of no longer extant cloth pictures by Palermo except for the flowery knee ornaments, clothes and pictures made a perfect match of his-6 colors and crisp color fields (see fig. 46).<sup>61</sup> Party or not, the women were having a good time.



Fig. 47. Hoesch advertisement, Der Spiegel, 3 October 1966, inside back cover.



WALL PAINTINGS, 1968–1973  
ABSTRACTION AND DECORATION



Fig. 46. Documentation for Technische Universität Braunschweig (Dachstuhl) (Nov 1963), Galerie Ernst Heinen, 6–20 June 1966. Photo and text panel on paper with three photographs, all on cardboard, 90 x 66 cm. Kunstmuseum Bonn.


Fig. 47. 2 Rooms, Technische Universität Braunschweig (2 Rooms, Cloth Stripping and Wall Drawing), Galerie Ernst Heinen, 6–20 June 1966. Photo: all images on wall, 400 x 600 cm; back room, cotton over wooden slat construction, 400 x 700 cm.

# 3

All the Art That's Fit to Print  
(And Some That Wasn't)  
Inside *The New York Times* Op-Ed Page

JERELLE KRAUS

"Politically incorrect  
and hilarious.  
To discover what  
really goes on  
inside the belly of the  
media beast,  
read this book."  
BILL MAHER

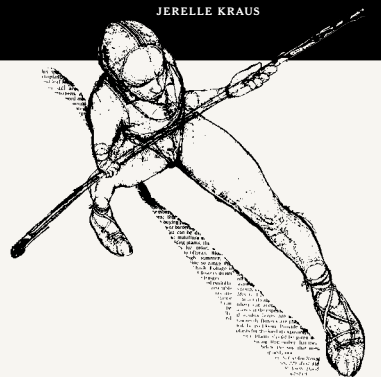



Foreword by Ralph Steadman

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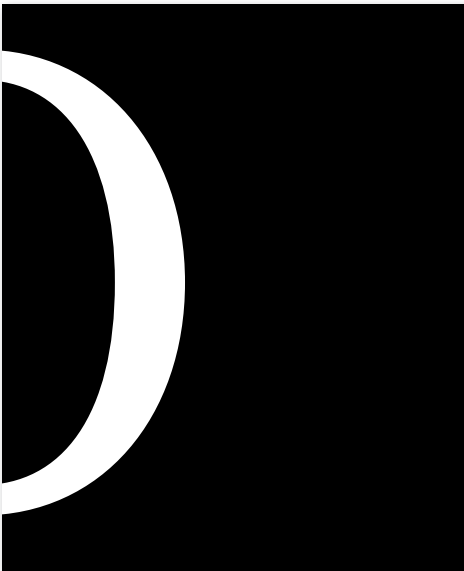
All the Art That's Fit to Print  
(And Some That Wasn't)  
Inside *The New York Times* Op-Ed Page

JERELLE KRAUS

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Kiss-Off

Art is dangerous. It is one of the attractions. When it ceases to be dangerous, you don't want it.  
ANTHONY BURGESS

I'd scarcely embarked on the task of Op-Ed art direction when I set off on an immensely repetitive. The year was 1979 and Steadman's hand print was to be an ever recurring Henry Kissinger of state-of-the-art war crimes. Written by editorial design police officer William Pfaff, an authorization note called for hold art. Although new to New York and the Times, I was sufficiently conversant with the march orders of Edward New York Review of Books caricature David Levine to think he'd be ideal to illustrate Pfaff's strong opinion. Expect to ensure that he'd take the risk. I gave the artist carte blanche. After all, I reasoned, no illustration could deliver the controversial statement as handsily as an art's lightning attack.

Levine jumped at the chance and delivered a terrific note to first (Figure 1). Tattooed on the diplomat's back are hallmarks of his career. Shoulder hairs become Arabic script, bombs fall on Catholicism, and Vietnam declares "Richard" alone between killing with "Mother," and the slab of Iran and a Clinton dream above the dangle. Clinging with pride, I showed the sublime speed to Op-Ed editor Charlotte Curtis. She turned up her nose.

"That's awful," she snarled. "It's kinder to Kissinger than the Pfaff ton." I returned. Curtis found me in an anteroom, her ornate furniture evoked merrily. "This did appear for 48 hours as I struggled to subdue the drawing. 'I'll try to replicate a midday copy.' That's not it," she snapped before pronouncing, haltingly, "It's the most awe-sublimation I've." "But publishing this drawing will be a midday copy," I replied. "It's a showstopper," she threatened with withering hostility. Curtis then spun around in her chair. Her turned back toward the matter. Still clutching the condensed printer, I felt like a fool. I never meant to catch in flight, only to be pinned to a wall of alien specimens. Levine's name was so clever that even the same person might have been accused. "The only thing worse than being it," Kissinger once said of Garry Brodsky's specialized case.



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Thumbs Down

WILLIAM WACKERLING

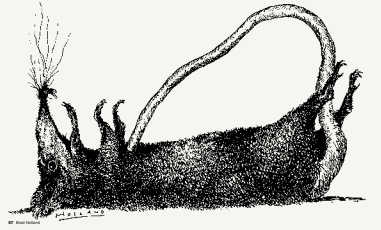
Art made tongue-tied by authority.

Have been long been wary of visual imagery. The historic chest of literature set in capitals, in fact, of advertising logic: abstracted rather people are said to have that a camera's image could shed their words. Even the reticent ancient Greek classical statues to the ground to prevent them from flouting. And the Second Commandment came home: "Thou shalt not make... any graven image, or any likeness of any thing." Pictures seem more dangerous these words because our right brains fall more easily under their sway.

In 2008, European cartoonist performing Mohammed that were reported from the Danish newspaper Jyllands-Posten were declared blasphemous to some Muslim leaders, who would daily threaten against the artist. The multiple protests across the Muslim world resulted in violence that led to more than one hundred deaths. In 2008, people are still being charged with plotting to kill the Danish cartoonists.

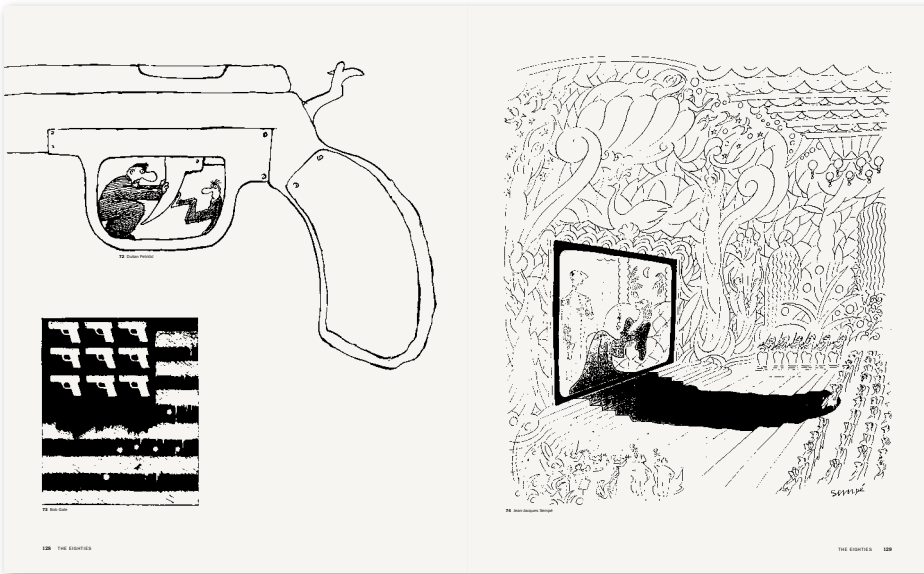
Have a sampling of pictures that didn't make the cut in Op-Ed's first decade. A rather wild portrait of Idi Amin Dada by Peruvian artist Carlos Lemos Aguiar was deemed too severe an indictment of the Ugandan tyrant's mass murders of his own people (Figure 56). Donald Hallford's attempt for an article on low-cost housing in Manhattan was rejected for, as editor said, "going too far" (Figure 57). Hans Gery Rensch's drawing illustrating the Persian Gulf conflict was squelched by its portrayal of the Jewish war (Figure 58). The artist insisted that he'd used the precedent convention for portraying Jews, but the editor felt that his characterization recalled those of *The Shermans*, a Nazi Party newspaper.

During the balloon election in 1976, Communist leader Enrico Berlinguer remained the suffragette domination of the Christian Democrats. Hallford's outburst for that political power struggle failed with good reason—also. First's case was (Figure 59). Dr. Mark Pothol's image of American attitudes toward abortion also met with rejection (Figure 62). And Anish Kapoor's illustration of a vast no factor faces, but a European claim that the open depicted made spiritual killed it (Figure 61). Another rejected image by Hallford was intended for an article about women's intuition (Figure 62). And one of Douglas Fisher's images was "too much," in the opinion of an editor (Figure 63). That's a full description for the issue's subject," says the artist, "which was once carried in America."

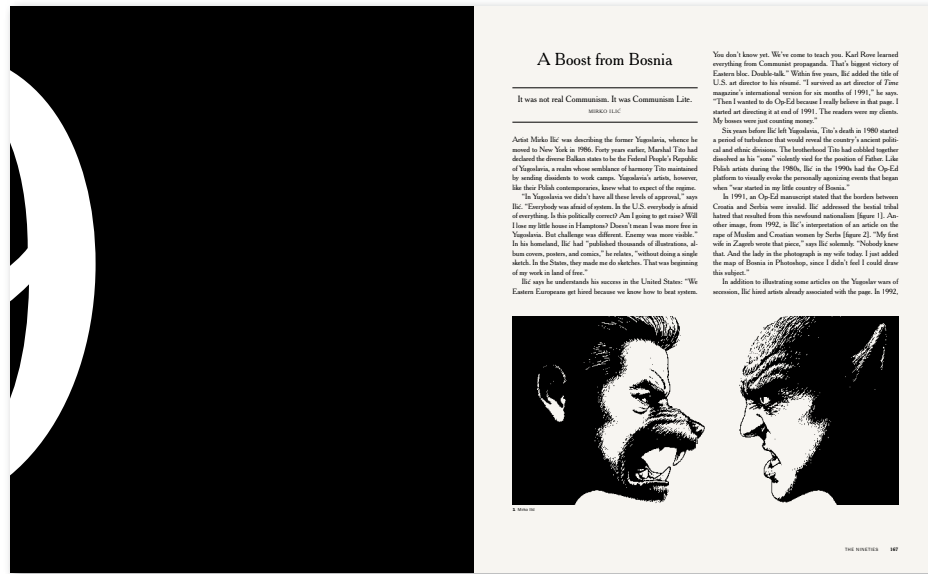


THE SEVENTIES 63





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### A Boost from Bosnia

It was not real Communism. It was Communism Lite.

MICHAEL LEE

Artis Misha Bie was describing the former Yugoslavians, whom he named in New York in 1986. Forty years earlier, Marshall Tito had declared the diverse Balkan states to be the Federal People's Republic of Yugoslavia, a state whose substance of harmony. He maintained by creating dissidents to work against Yugoslavia's state, however, like their Balkan counterparts, know what to expect of the regime.

"The Yugoslavians were able to have all these kinds of apparatus," says Bie. "Everybody was afraid of them. In the U.S. everybody is afraid of everything. It's the publicly correct. And I'm not to raise 'em. Will I have my little house in Hingham? I don't know. I was more for the Yugoslavians. That challenge was different. Enemy was more subtle." In his homeland, Bie had "published thousands of illustrations, all been covers, posters, and comics," he admits, "without doing a single death in the States, they made me do the dishes. That was beginning of my work in food in fact."

Bie says he understands his success in the United States: "We Eastern Europeans got hard because we knew how to heat systems."

You don't know me. We've come to teach you. Karl Marx learned everything from Communist propaganda. That's biggest victory of Eastern bloc. Double-talk. "Within five years, Bie added the title of U.S. art director in his résumé. "I worked as art director of Time magazine's international section for six months of 1991," he says. "That I wanted to do the Op-Ed because I really believe in that page. I started it directing it at end of 1991. The readers were my clients. My bosses were just counting money."

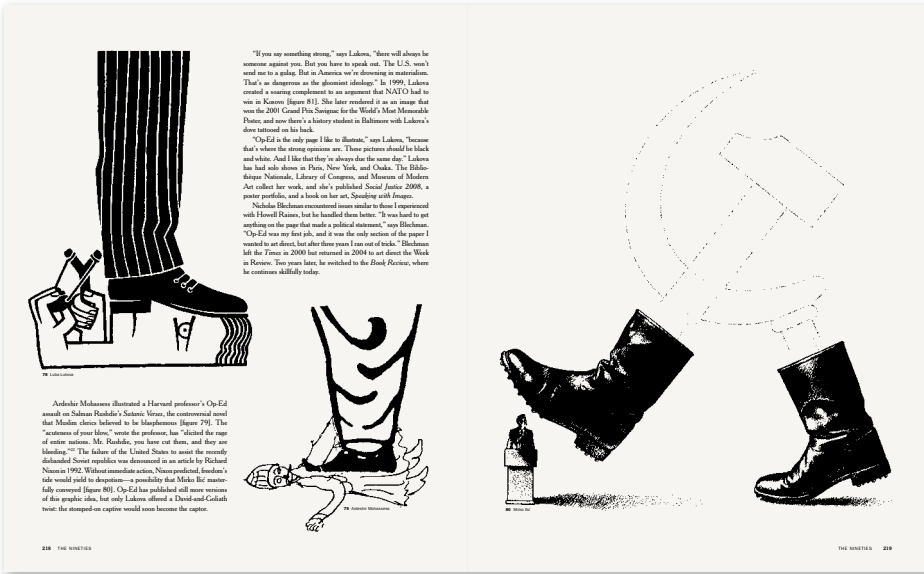
Six years before Bie left Yugoslavia, Tito's death in 1980 started a period of turbulence that would reveal the country's ancient political and ethnic divisions. The borderland Tito had divided together dissolved as his "sons" vied for the position of Father. Later, Slobodan Milosevic during the 1980s, Bie in the 1990s had the Op-Ed platform to finally reveal the previously operating events that became when "we started in my little country of Bosnia."

In 1991, an Op-Ed commentary stated that the border between Croatia and Serbia was voided. In the U.S. everybody is afraid of having that revealed from the communist nationalistic figure 11. Another essay, from 1992, is Bie's correspondence of an article on the rape of Muslim and Croatian women by Serbia (figure 2). "My first wife in Zemun wrote that piece," says Bie solemnly. "Obviously have been that. And the lady in the photograph is my wife today. I just added the name of Bosnia in Photoshop, since I think I lost I could draw this subject."

In addition to illustrating two articles on the Yugoslav war of success, Bie had artists already associated with the page. In 1992,



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joined me on the home side. Although disappointed, I appreciated that Curtis upheld Op-Ed art's statement-making mandate.

We worked back and forth. Encountering on Nadelman's hypothesis that voters were projecting onto Kennedy their own deepest fears. I stated thinking not like and instead my director to Jerrold Renschbach (figure 20). Making the picture was a lot easier than making the phone call.

"Just need me my director," Misha mentioned. The next day brought representations. Two publications called to hire Jerrold Renschbach, and art line submissions poured. "We do not use pseudonyms in the New York Times," I'd learned another lesson: be careful with names. Directed by Misha's name and simplified, I had to yield him for elsewhere.

That said, I felt that the moment for artist Roman Rosenfeld could be found to continue a job, in 1981, for the United States to help (then propaganda) Zimbababwe (figure 27).

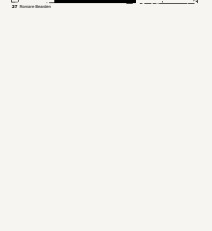
Larry Rivers, although an acclaimed fine artist whose work commands high prices at Marlborough Gallery, killed nine Op-Ed commissions on deadline in the 1980s for \$250 each. He "Rampant Crossing the Golden Gate" was forthcoming in 1981 (figure 28). A parody of the invasion of Canada by the United States, it relied on Rivers' painting Washington Crossing the Delaware (first a work-up of Emanuel Leutze's version of the same scene from 1851). Having studied with legendary abstract painter and teacher Hans Hofmann, Rivers was in his words, "trained to draw the fire" and retained the unshakable genes of history painting and patriotism with panache.

He retained the Op-Ed work. When changes to his originals were needed, he'd see "Take a Pink Dink enter and kind of scratch it out, then draw in whatever you need with a marker two pencil." Painter, sculptor, ballroom-trained jazz saxophonist, landscape, writer, actor, and provocateur, Rivers was unapologetically flamboyant. He described one of his childhood mud-and-pine America's No. 1 Problem, as "black rock, white rock, and rain."

Rivers was also a kind and generous friend who loved discussing politics, literature, and history. He wrote two self-reflective books, and died in 2012, which was full-time museum restorative demands Washington's Constitution gallery.

In 1983, he met director Liza Powers bond another celebrated artwork figure (figure 29). They were deepest surface reveal from perspective of the photos, but Misha had made an attempt to capture the subject's disposition. Curtis felt that these amazing drawings wouldn't enhance the article.

"But look at that caption," I said. She wasn't impressed: "This wasn't in the Op-Ed. They were nothing." Leads to how three commissioned Misha's, I fought to save one. That Curtis called our five-person and fit an unprecedented two. Deputy editor Steve Crist







# RENZO PIANO MODERNISM, MUSEUMS, AND THE TRADITIONS OF CHICAGO PAUL GOLDBERGER



Figure 10  
Detail view of the glass curtain wall of the Modern Wing facade at the Art Institute of Chicago, Chicago, Illinois.

tern "curtain wall"—it is set between vertical steel mullions, and at several key points it extends up or down beyond the building portion it is enclosing, as if to make clear that it is not a structural wall, but a covering applied later. Every curtain wall is that, of course, but Piano here takes the classic element of Chicago postwar architecture, and exaggerates it with wit and conceptual skill, at once paying his respects to the modern curtain wall and giving it a new twist (Fig. 10).

The overall effect, as with almost all of Piano's buildings, is one of considerable lightness, but—much like his always characteristic 1970s—never does the lighting of lightness spill over into Sameness. This is no building that will look as if it might fly away in Chicago's lake-side winds, or as if it would be unable to hold its own beside the more-chic wings that provided a Chicago again (Piano's extraordinary sense of balance comes into play). The vertical line of the glass curtain wall gives a light, almost delicate texture that breaks down the larger scale of the building. The screen, smooth and solid though still light in color, serves as a counterpoint to the metal and glass. There is a huge, overhanging canopy of structural aluminum, which Piano has called the "flying carpet," extending out beyond the eastern part of the structure on all four sides and supported by thin steel columns (Fig. 11). From afar, it really does appear almost to float ("I can't imagine enough to believe that making a roof of great art, but it is the simple dream of architecture," Piano has said). The idea of getting that roof off the ground above the building—it is a shelter for art, a paragon, but also a shelter for life.)

The canopy as Piano suggests, is both poem and prose. In effect it ignores sameness, it is a descendant of the roof Piano used in the Agnelli meeting gallery in Turin, as well as that of the Chrysler and, to a lesser extent, the Mall. In each case the roof contains fire, or blades, which capture north light and reflect it down into the galleries while blocking light from the south, east, or west (Fig. 12). In Chicago, as in these earlier Piano museums, the canopy is both a key part of the process of controlling natural light in the galleries and a powerful visual counterpoint to itself. Its broad overhang, which actually seems not so much to be flying as to be comfortably at rest, gives the structure a self-assured, rooted presence.

Since the late 1970s the northeast corner of the site had been defined largely by the use of the city's art from Louis Sullivan's great Stock Exchange Building, here standing less as if it were a piece of monumental outdoor sculpture. With the angled entry to the Rubell wing at its building, the Art Institute provided a well-integrated but somewhat grandiose setting for the art, which seemed to cry out for a door beneath it and a building above it. Obviously, Piano could not restore Sullivan's building, the demolition of which in 1972 remains one of the city's architectural tragedies, but he was able to give the art a somewhat more dignified presence by aligning it to his facade and offering it, once again, at least some connection to an architectural context, however tenuous (Piano himself could be said to disagree the link between Sullivan and the Art Institute, at least conceptually, since there is something slightly Sullivan-like about the way in which Piano's work seems simultaneously delicate and robust.)

The three-story structure under Piano's flying roof, which contains new quarters for the museum's education program on the ground floor and the galleries for modern and contemporary art on the two floors above, forms the main mass of the new wing as it will be seen from Millennium Park. It is a roughly symmetrical, and one might even, from a distance, have some of the characteristics of an Edward Dineen building from the 1920s—light, modern, determinedly not about in the manner of a Museum building, and its symmetrical facade set underneath an overcast, overhanging roof supported by thin columns. When you get

Figure 11  
View looking east of the Modern Wing of the Art Institute, showing the "flying carpet" over the east portion of the building and the Turin and Agnelli Theater Gallery (see Fig. 10).



closest of courses, you see that it is something else altogether: not warmed-over, slightly de-tailed classicism, but an inverted Modernism that does not hesitate to embrace asymmetry when it seems appropriate—in this case, as a means of responding to Millennium Park but also as a way of providing some counterpoint to the disorder of the Skidmore, Orange & Merrill sectors, which will now be largely hidden behind it.

Piano's aesthetic is in large part a story of invention, elegant, and often subtle juxtapositions of materials, textures, and solid and void as a means of achieving compositional balance. He likes complexity, and he likes ambiguity, and the notion that buildings must demonstrate an elegance as they proceed toward form and through them. In the case of the facade of the Modern Wing, Piano's first surprise is that it is not nearly so reliant on asymmetry as it first appears, since it turns out that the large, high-symmetrical base that dominates the facade and sits below the flying roof structure is part of a larger composition. The high base, which contains the main galleries for contemporary and modern art, forms the eastern portion of Piano's new wing beside it to the right is a similar portion, the western portion of the wing, slightly lower and not covered by the flying roof structure. This western portion has additional galleries, including those for design and architecture, and small special exhibitions, meeting rooms for the Art Institute's Board of Trustees, dining facilities, with an adjacent outdoor terrace for sculpture, a museum shop, and a new entrance to the museum, replacing the ground-level entrance into the Rubell wing from Columbus Drive.

This entry will lead directly into Piano's most important public space, a 300-foot-long, 30-foot-high, 30-foot-wide area that extends outward to join the existing building. It is more than the most circumspect space for the Modern Wing. It is an interior public street for the entire museum, a place that, however great the collection and however pleasing some of its galleries, has never been clear in its layout, or had a corridor that functioned as a kind of "main street," a space from which all other parts of the museum could be logically accessed (Fig. 13). The newly restored floor building is an exception to the general complexity, but its appearance is clearly you have to get to it, which is not always easy or logical.)

Figure 12  
View looking west of the Modern Wing of the Art Institute, showing the canopy structure and the Turin and Agnelli Theater Gallery (see Fig. 10).



Figure 13  
Interior view looking west of the Modern Wing of the Art Institute, showing the canopy structure and the Turin and Agnelli Theater Gallery (see Fig. 10).



Figure 14  
The general profile of the Modern Wing has been compared to that of a racing yacht. The canopy structure, looking north, showing the structure of the Turin and Agnelli Theater Gallery (see Fig. 10), and clearly defined, could be said to be a kind of 'main street' for the museum, which is adapted to the site's geometry of modern equipment art.

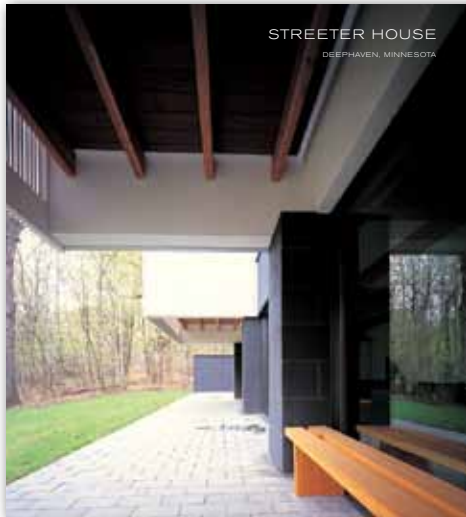


THE INVISIBLE  
ELEMENT OF PLACE THE ARCHITECTURE  
OF DAVID SALMELA

THOMAS FISHER  
PHOTOGRAPHS BY PETER BASTIANELLI-KERZE



BOXES



STREETER HOUSE  
DEERHAVEN, MINNESOTA

FATHER AND SON

The average American household does not match the myth. According to the U.S. Census Bureau, only 32 percent of households consist of married couples with children, a number that is only slightly ahead of the households of married couples without children (28 percent) and single people living alone (28 percent). Meanwhile the number of households headed by a male grew 44 percent in just an eight-year period between 1995 and 2003 and now constitutes 2 percent of all families. The home-building industry has adapted to these demographic changes slowly, at best. Most of the mass-market homes available in many locations assume larger families, able to do more maintenance and needing more room than these statistics suggest.

Recent demographic shifts have in turn created a great need for more adaptable, compact, and diverse housing types than currently exist. Although many buyers think they cannot afford a custom-designed home, they typically end up buying more houses than they need and one that doesn't necessarily fit their family's lifestyle. This decision can be less cost effective than hiring an architect and a custom builder to design and construct a house that meets their requirements without wasted space or expense.

The house and surrounding site that architect David Salmela and landscape architect Shane Coen designed for Kevin Streeter and his son demonstrate the advisability of the custom-built route. They show how the dramatic increase in the number of male-headed households has begun to affect the size and nature of housing, and indicate the extent to which creative new models can arise when offering people real choices in the home market. A builder of custom homes himself, Streeter admits that "there are a lot of terrible houses being built these days."

3 Streeter House



About three-quarters of its capacity, the restaurant porch has a plating cart that turns about the table, with seating on what has become the wall.

right. A small bench beside the bar door provides a shaded place to look out on the landscape and to take off shoes before entering the house.



10 Streeter House



An identical wood bench in the entry vestibule offers a place to sit in a critical pathway before moving into the adjacent living and dining areas.

11 Streeter House



HAWKS BOOTS FACTORY  
DULUTH, MINNESOTA

## AS GREEN AS IT GETS

We hear a lot about the "green economy" without always knowing what it means. For some, it implies an economy that uses environmentally friendly methods of making and delivering the products and services we have today, while for others it suggests something more dramatic: a complete change in the relationship between humans and the natural environment, resulting in new kinds of products and services and in the cessation of the most damaging things we do right now. These two visions—more evolutionary, the other more revolutionary—do not necessarily exclude each other. We can evolve more slowly in areas that do not have much effect on the environment as long as we move quickly in those that do. What matters is how fast we expand what we mean by the bottom line, determining profit not only in financial terms but also in consideration of the benefits our actions have on others—other people, other species, other generations.

That may not sound like a formula for economic success, but green companies have begun to prove skeptics wrong. Businesses that value people and the planet as much as conventional ones about profit have done very well, as exemplified in two companies, Lull and Epiconex, whose owners commissioned David Salmela to design their offices and production facility in a renovated industrial building in Duluth. "They're young, progressive companies," says Salmela, "with innovative, sustainability-minded products," and their success shows the business owners care about their employees, attend to the natural environment, and produce eco-friendly products while also building economic value.

The companies started as a design-build firm, making TrueRide skateboard parks. The surface they used consisted of a paper-based, fiber-composite material—Stabalite—that retained the

17 Hawks Boots Factory



Above: The new office of the Hawks Boots Factory occupies an old factory building, illustrating a form of industrial building, illustrating a form of Duluth history.

Opposite: From the parking area, visitors can see between two glass doors to a surprising steel entrance that leads to the glass-walled meeting offices.

wear and tear of stabilizers to a remarkable degree. The firm also used polycarbonate high-density polyethylene derived from recycled plastic containers to make the substructure supporting the skateboard surface. Eventually, brothers Dave Benson and Greg Benson, along with Tony Caselli, began saving the scrap from making skateboard parts to manufacture Lull Design's outdoor furniture and Epiconex cutting boards, all made from recycled materials. "We're a little different from other companies," admits Greg Benson, and when it came to expanding their facilities, "we didn't want something traditional."

In industry, "traditional" usually means building a new structure from scratch, often using high-energy materials in locations that require a lot of fossil-fueled transportation. Instead, Benson and his two co-owners bought an eighty-year-old factory in the city of Duluth, next to a train line, with the goal of recycling it, in the spirit of their products. The factory, called Hawks Boots, had had several additions over the years, with a manufacturer of concrete curb walls having occupied it last, leaving behind contaminated soil, cement waste, and concrete debris, which the new owners cleaned up with the oversight of the Minnesota Pollution Control Agency. And yet, despite the expense of the cleanup, the building offered great value, with high-ceilinged production spaces and a spectacular view from its easily accessible roof, of the St. Louis River and Duluth harbor in the distance.

18 Hawks Boots Factory

The building lacked adequate office space, however, and so Benson and his co-owners approached David Salmela. "We knew about David's buildings, such as his Greenway Falls State Park Visitor Center," says Benson, "and we knew he could give us something comfortable to work in." That Salmela had worked on an industrial building earlier in his career was also a plus. What cemented the relationship was Salmela's seeing the potential of the fiber-composite board that the company uses in its cutting boards as a possible cladding material for the building. "We realized in the first fifteen minutes that they had an amazing product," says Salmela. Skatelite can withstand severe weather and it has an integral color that needs no painting and little maintenance. Its use in the company's offices would serve as an ideal advertisement for the durability of the company's sustainable products. "David liked the white-black color the best, which also has the best performance for the exterior of buildings," adds Benson, "because it takes the least."

Salmela and Benson realized that the factory's roof provided the best place for the five-thousand-square-foot addition. That location not only offered "an amazing view," says Salmela, it also separated the offices from the manufacturing below and provided an easy entry point on the right side of the site. Using the concrete debris on the property, Salmela created green-covered earth berms that flank the entrance to the offices and guide visitors to the wood-slat entrance that covers the stairs to the front door of the addition. They also provide some visual separation between the offices and parking area. "The berms are like the mounds that Martha Schwartz uses in her landscapes," jokes Salmela, "but here they serve an environmental purpose, keeping waste material out of the landfill."



19 Hawks Boots Factory

to the height of the built-in table in the study above. That shared pair of windows has two very different effects. On the first floor, it draws your attention up into the trees, emphasizing their height and age, "dressed with moss" as Longfellow put it. And on the second level, the windows along the floor focus your view down to the forest floor, "indistinct in the height" of deep shade.

Modern design is often associated with machine production and mechanical forms, but the Scandinavian version of modernism has often sought, instead, to reconnect us to nature by opening up buildings to their surroundings and by using natural materials. You see that sentiment in Salmela's use of wood, left in its natural state, on both the inside and outside of houses such as the Christens' cabin. And you also see it in what Salmela's clients often select as furnishings. In the Christens' case, long before they commissioned Salmela to design their house, they had purchased a number of vintage Danish modern chairs by the well-known designer George Møgenstam. Made of unpeeled huckleberry slapping along over clear-finished wood



Above: From the road, the Christens' cabin lies low in the ground. On the upper level of the roof, the huckleberry slapping and the wood-clad bar are clearly visible.

Opposite: The table, the built-in green bench, and the light fixtures in the wood-clad bar are clearly visible.

Opposite: The white, half-deck along the window wall leads the long view "upstairs," to which is the dining area and kitchen, which is open to the floor above.

20 Christens' Cabin



21 Christens' Cabin



The white moose figurine is a hand-painted in the living room, with one pair in the woods or to the wood-clad bar and kitchen.

frames, the Møgenstam furniture provides the seating in the dining and living areas, and "it goes perfectly with David's design," observed Bob Christen. Having first brought the chairs, adds Alice Christen, with a smile, "we had to have David design a home for them."

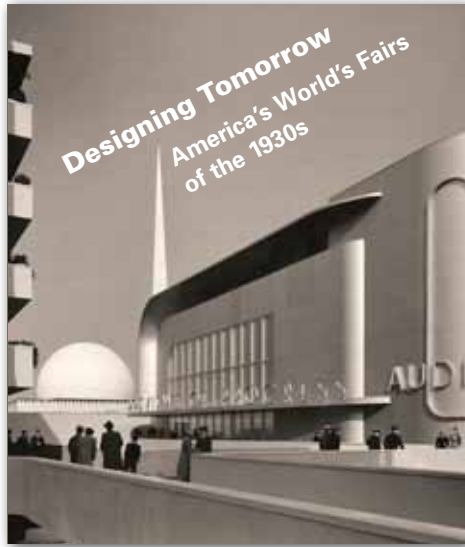
Sometimes, of course, we don't recognize the inevitability of things. "The one thing we thought David would want the four-foot-wide white overhang on the roof," admits Bob Christen. "We thought they would look out of place with the dark color of the house and would block our view of the trees, but David insisted on them, and he was right. They're wonderful!" As in Longfellow's poem, where it seems irresponsible that Everglades will one day merge with Cahokia, so too does the simplicity of the Christens' cabin seem effortless, as natural as the murmuring pines that surround it.

22 Christens' Cabin



Above: Stone leads to a good bedroom and study, with the kitchen island serving as a gathering point between the living and dining areas.

23 Christens' Cabin



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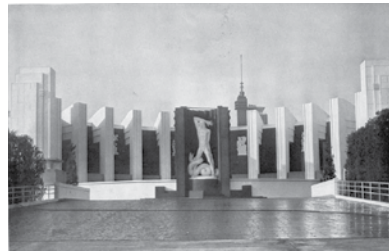


Fig. 2 Paul Cret's Hall of Science at the Century of Progress Exposition, with John Serrin's exclusive Knowledge Corridor (entrance, Auditorium and Fair Co. Office) above it at the Century of Progress Exposition Chicago, 1933–1934. Special Collections Research Center, University of Chicago Library.



Introduction

The bigger problem confronting exposition organizers was the look of the fair. No doubt it had to be modern. But what exactly did this mean? Hadn't the earlier generation of fairs with their grand neoclassical designs seemed modern to the people who had visited them? Complicating any answer to these questions was another exposition, the 1929 Paris Exposition Internationale des arts décoratifs et industriels modernes. The Paris exposition, which reframed design syntax across architecture and the arts on both sides of the Atlantic, had been without an official U.S. government exhibit. Secretary of Commerce Herbert Hoover had declined an invitation from the French government to participate.<sup>19</sup>

Hoover obviously here to host to the exposition museum. His objection to U.S. participation in the Paris event stemmed from the French requirement that "reproductions, imitations and counterfeit of ancient styles will be prohibited," and from his conviction that modernism did not really exist in the United States, and that, if it did, it certainly did not reflect American culture.<sup>20</sup> The reaction from American artists, architects, and designers came quickly. What about the architect Frank Lloyd Wright and Richard Neutra? What about the artist Man Ray and

Joseph Stella? In response to his critics, Hoover agreed to appoint an official U.S. commission to visit the Paris fair and report back on its content. This Report of Commission Appointed by the Secretary of Commerce to Visit and Report upon the International Exposition of Modern Decorative and Industrial Art in Paris did not impress anyone with its catchy title. But it was written less as a report than a manifesto, and its far-reaching conclusions set the stage for much of the thinking that fed the modernist designs of America's Depression-era world's fairs.

Led by the industrial art specialist Charles R. Richards, Arts-in-Industry medal winner Henry Creange, and the Lenox Ceramics designer Frank Graham Holmes, the commission defended the secretary's reasons for not participating in the Paris exposition. "As a nation we now live artistically largely on warmed-over dishes," they declared in the introduction to the report. Put simply, the problem with American design was that it was too historical in nature. This was unfortunate for two reasons. First, it posed a problem for the standing of American art in Europe. Second, and more important, it posed a problem for American industry. What the Paris exposition taught above all, the commissioners observed, was that the application of

could lead or follow. For American industrial designers, the choice was clear. Industrial design came of age with the fairs of the 1930s. And they were joined by the U.S. government, which deployed architects and designers to make the machinery of the federal government seem as relevant to people's lives as the machine age itself. There is good reason to concentrate on the works of important corporate pavilions, but to do so exclusively is to miss the forest for the trees, in an almost literal sense. Manufacturers represented at the fairs produced a forest of paper products in the form of advertising pamphlets that tried to convince foreigners that, through the consumption of newly stylized goods, they could be become as modern as their toasters and toasters, or, for that matter, their countertop and commodes.<sup>21</sup> And the designers did not rest there. For some, the goal of modern design was nothing less than redesigning the human body. If a fair could be an "industrial organism," as he put it, why not a human being? American modernism, in short, was not just about style or a way of living; it was not just about surfaces. It was about the substance and meaning of modern life itself.

If this sounds like an exaggeration, it is important to understand that the designers of the fairs never thought in small terms. Instead, they pumped steroids into the aphorism attributed to Daniel H. Burnham, director of works of the 1893 fair: "Make no little plans, for they have not the power to stir men's minds." As Bel Geddes informed Burnham's sons before the 1933 Chicago fair opened: "I want you to know that there is a second office which bears the visionary statement of your great father over his fireplace."<sup>22</sup> Industrial designers and architects did not stop with stylizing buildings. Exposition designers understood that to make America move modern, Americans would have to change their habits from the way they prepared food and dressed to way they thought about transportation, work, and leisure.<sup>23</sup> This emphasis is developed by Lisa Schrank in her contribution to this volume, where she under-

scores how designers from major industries joined exposition teams and did so with a fervor and commitment to saturation advertising that is astounding to behold.<sup>24</sup> In 1939 several industrial designers who crafted showpiece pavilions at the New York Fair responded to an in-

terview from Vogue magazine to put their imaginations to work on creating fashions for "the women of the future."<sup>25</sup> Their modern designs for—and on—women bear close scrutiny, especially for the influence of eugenics, the popular "science" of race betterment. Donald Deskey, the renowned designer of New York's Radio City Music Hall and several New York World's Fair exhibits, made this prediction: "Medical Science will have made the woman of the future's body perfect. She'll never know obesity, emaciation, colds in the head, superfluous hair, or a bad complexion—thanks to controlled diet, controlled basal metabolism. Her height will be increased, her eyelashes lengthened—with some X-hormone." Consequently, women would only need to have "a system of clothes units," machine-like interchangeable parts that could, of course, be mass produced (fig. 4).<sup>26</sup>

Raymond Loewy, who had established his reputation for railroad car and airplane interiors before being selected to design the Focal Exhibit of the Transportation Zone at the 1939 fair, made the explicit link with eugenics when he extended the theme of transportation to women's travel wear and his design for a garment that could be converted from casual to formal dinner dress. The larger problem for designers, he implied, wasn't coming up with the designs for the dress. Rather, the problem lay with the unsatisfactory physique of women. "But," he told readers, "there is no reason to worry, because 'eugenic selection may bring generations so aesthetically correct that such clothes will be in order.'" Little wonder that the same issue of Vogue included a piece entitled "To-Morrow's Designer," which peered into the future and concluded: "To-morrow's American Women may be the result of formula—the tilt of her eyes, the curve of her chin, the shade of her hair ordered like crackers from the grocer. She may be gentle, sympathetic, understanding—because of a remarkable combination of genes. She may be just of America, the world power; or of America, the absorbed state. A little wistfully, we play with possibilities."<sup>27</sup> Streamlining, in other words, had as much to do with ideology

—in this case, the ideology of creating a race of near-perfect human beings—as with style. Or, to put it a bit differently, the version of modernism that Hisscock and Johnson spun for MoMA goes as being primarily about aesthetics, and not about ideology, stood at some remove



Fig. 4 "The Body, New Dress System" by Frank Morrison, Raymond Donald Deskey, and Armin Brunel, photo by Raymond Vogue, February 1, 1939. Armin Brunel/Vogue © Corbis News Publications.

Robert W. Rynd

Introduction



## Modern Design Goes Public A Photo Essay

Laura Burd Schiavo

On the eve of Chicago's 1933 Century of Progress Exposition, Alfred Granger, president of the local American Institute of Architects chapter, reflected on the undertaking of the architectural commissions chosen to design the fair. They had, he wrote, "come home from the 1931 Paris Exposition Coloniale Internationale (inspired by the effects achieved through the use of new materials, new form and the possibilities of electric lighting and related the forthcoming exposition in '33 to be wholly 'modern' in every respect." As Granger predicted, the design for that fair, and that of the five that followed over the next seven years, deviated substantially from the historically inspired, heavily ornamented designs of previous American expositions. In 1937, anticipating the world's fairs being planned for New York and San Francisco two years later, the industrial designer Walter Dornis Taggart described the benefits of the multiplicity of fairs during the 1930s. A member of the New York World's Fair Board of Design, Taggart explained: "Hereafter world's fairs have been spaced so far apart that each has been planned out of a vacuum. . . . But we have had a series of fairs in the past five years; we have been able to observe the reactions of the public

the affect of exhibits on the spectators and the degree of interest they aroused."<sup>1</sup> These two quotations, one from an architect, the other from an industrial designer, suggest the usefulness of the moment for their respective professions. Emboldened by developments abroad and at home to create "modern" fairs, they engaged in a prolific and productive exchange about the nature of contemporary expositions during an energetic decade of world's fair activity. After all, expositions dating back to 1851 and the first such endeavor, London's Great Exhibition of the World of Industry of All Nations, had featured architectural innovation and showcased invention. Now, the architects and designers debated, would these look different? The designed elements of the expositions—the fairgrounds, the pavilions, and the exhibits—can be viewed as their reply, expressions of modernism in the hands of (largely) American practitioners. Although there was no coordination from fair to fair, the architects and designers collaborated on multiple projects for multiple fairs in various combinations. Beyond their roles for the expositions, they were each other's teachers, students, and partners.



Plate 11  
Three sections of William Leach and J. Gordon Carr's *Modern Building*, which "together provide a look at modernism in Chicago, with its architecture, its urban fabric, and its atmosphere. Most visible in this photograph were located in the original fairground and modern section, which housed industrial exhibits. © Eric A. Long/Courtesy of Eric A. Long.

Laura Burd Schiavo

Modern Design Goes Public



Plate 18  
The formidable complex constructed some of the largest and best preserved of the fair, prominent among them the architect Albert Kahn's design, National Fair Golden Gate Motors Building, with its prominent, sweeping arch and curving steps. Photo provided courtesy of Helen Ferry of Currier.

Laura Burd Schiavo

Modern Design Goes Public



Plate 3  
The issue of *Popular Mechanics* magazine (1933) includes an advertisement, advertisement spread featured on the building (referred to as the application of all materials in the Century of Progress Exposition). The cover featured the City Park National Building Museum.

Laura Burd Schiavo



Plate 31  
Entrance of the Future Institute in General Motors Building, Henry Raymond Hamilton Thayer's Center University of Texas, Austin, courtesy the Estate of Edith Lyman Thayer.

- Notes**
1. Alfred Granger, *Chicago Millennium Year Chicago*, A. Knopf, 1933, 225. Quoted in Eric A. Long, *Building a Century of Progress: The Architecture of Chicago's 1933-34 World's Fair* (Minneapolis: University of Minnesota Press, 2011), 30.
  2. Walter Dornis Taggart, "Exhibition Techniques," *American Architect and Architecture*, September 1932, 9, 20.
  3. Eugene A. Sartorius, "The Design of Recess: Architecture and Planning at the 1933-34 New York World's Fair," in *Design of a New City: The New York World's Fair, 1933-34* (New York: New York University Press, Queens Museum, 1985), 20.
  4. Sartorius, *Building a Century of Progress*, esp. chapter 2.
  5. Frederick A. Guthrie, "Buildings at the Fair," *Magazine of Art* 22 (1930): 246.
  6. Richard L. Pease, *Public Light on the Building of San Diego's Exposition, 1893* (San Diego: Parker H. Jackson, 1973), 59. This is a reference to an originally published in 1937.
  7. Office Guide Book, *Golden Gate International Exposition on San Francisco Bay* (San Francisco: Bay Exposition, 1935), 108.
  8. Frederick A. Guthrie, "The Buildings and the Plan," *Magazine of Art* 22 (1930): 154.
  9. Alfred Frobenius, "Program of the Pacific," *Magazine of Art* 22 (1930): 124.
  10. Quoted in "Design of Fair Cities," *Modern Architecture*, June 1933, p. 276.
  11. See Helen A. Jordan, "The Fair Program: Color and Light as Elements in Design and Planning," in *Design of a New City*, 42-46.
  12. Richard Hamilton, *Creating the Corporate Side: The Rise of Public Relations and Corporate Imagery in American Big Business* (Berkeley: University of California Press, 1985), 204.
  13. Douglas Hadden, "Tomorrow at the World's Fair," *Architectural Record* August 1933, 46; Taggart, "Exhibition Techniques" in *Design of a New City*, 21. See also Marjorie, *Covering the Corporate Side*, 201.
  14. For a discussion of the movement in modernism see Steven Conroy, *Modernism and American Intellectual Life, 1915-1929* (Chicago: University of Chicago Press, 1985), chapter 7.

Laura Burd Schiavo

Modern Design Goes Public

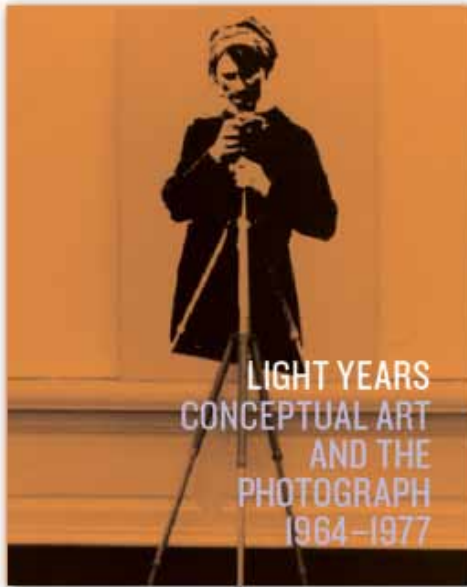
"If it does nothing else, [the Century of Progress Exposition] is likely to demonstrate the practical value of exterior and interior illumination for decorative purposes, and to show the practicality of simplified construction as applied not only to large buildings, but to small homes as well."<sup>1</sup>

*Popular Mechanics* magazine, May 1933

a design that broke from axial symmetry (plate 3). An informal layout, he believed, allowed more creative expression by the architects of individual pavilions, best illustrated by the flow of people, and most easily accommodated notable changes in the number and design of structures. The eventual serpentine plan broke closest resemblance to Hood's proposal. It wound along two main axes, the long, narrow man-made Northern Island and a mainland site across a lagoon (plate 42).

Despite a variety of earlier proposals for New York and San Francisco, the design committees for both fairs settled on plans dominated by an axial hub (plate 7). At the Golden Gate International Exposition unequal axes broke to some degree with the symmetry of a traditional approach, but the plan's basis in a series of courts reflected the legacy of the classically trained architects (plate 8). Ironically, the New York World's Fair, deemed the most modern by later critics, was the most traditional in plan. The largely conservative board of design rejected a plan for a serpentine path presented by a member of the more progressive "Fair of the Future Committee." The fair's "Theme Center" (the Tylon tower and spherical Portuguese) formed the core, with thematic zones radiating in fanlike segments around it (plate 9). In neither San Francisco nor New York did the organizing scheme adhere to the entertainment zone, and the failure of the plans to take into account multiple entrance points prevented uniformity in the vistas encountered by fairgoers. Critics of the New York fair maintained that the absolute order was at odds with an avowed spirit of change and that insufficient elevations prevented views of the most important vistas.

A number of design inspirations set the grounds apart from previous expositions. The planners shared an enthusiasm for air travel and attended to the question of how the grounds would appear from above. The inclusion of Chicago's Sky Ride and the offering of trolley rides over the grounds of many of the fairs attest to this awareness. In addition to their interest in how the grounds would look from the air, planners in Chicago, New York, and San Francisco devised innovative color schemes that coordinated the buildings and flora to help orient visitors on the ground. Although eventually deemed ineffective for navigation, the ideas expressed a modern engagement with the innovative use of color.



LIGHT YEARS  
CONCEPTUAL ART  
AND THE  
PHOTOGRAPH  
1964-1977



ACROSS THE UNIVERSE

Mark Godfrey



Mark Godfrey



Mark Godfrey

FOREWORD

Conceptual Art has long been at home in the Art Institute. In 1974 Anne Borner, Curator of twentieth-century Painting and Sculpture, brought together a number of the artists included in the present exhibition for a pioneering show titled *Like and Image in Recent Art*, the first of several monographic and thematic Conceptual Art exhibitions that Borner curated over the subsequent decade. Since his arrival in 1970, James Boudon, Clara and Francesco and Thomas Diener, Curator of Contemporary Art, has regularly revised that precedent; an on-again-off-again modification, the permanent collection galleries in the Modern Wing include a room devoted to Conceptual Art. In the fall of 2011, the first of three new permanent galleries in the permanent collection galleries today is devoted to Conceptual Art. The work *Leaving a Footprint* (2012), by Eleanor Antin, comes to mind—and the departments of Photography and Contemporary Art have in recent years drawn together to address the singular importance of photography to contemporary expression that began, precisely, in the Conceptual Art era. The purchase by the Department of Photography in 1971 of Simon Humphrey's *Negative* (1970), an important early piece by Mark Godfrey, and the subsequent gift one year later of more than 150 mostly contemporary art photographs by Broadloom, Inc., set the stage for further common activity. Only recently, however, has fuller coverage been given to "photocorporealism" and its legacies, as, for example, in the recent exhibition *The Story Camera*, which was organized by Katherine Bonner of the Department of Photography. That show included work by Philip Lorenz O'Connor and Nan Goldin, whose masterpiece, *The Ballad of Sexual Dependency* (1977-2001) was acquired jointly by the departments of Photography and Contemporary Art in a recent exhibition of photographs by Ed Ruscha (2002) presented the comprehensive treatment of photography and avant-garde art in the 1960s and 1970s that has now been undertaken by Matthew S. Wilkerson in the exhibition *Light Years: Conceptual Art and the Photograph, 1964-1977*.

Photography is the art of the Art Institute today, from the Dada photomontage of Max Ernst that hangs with the prewar modernist paintings, to photographic interpretations of the Modern Wing commissioned by the Department of Architecture and Design. The twentieth-century examples featured in a recent American Art exhibition on the Arts and Crafts movement, and an exhibition planned by the Department of Asian Art on the treasures of Japan, India, Photography is especially pervasive as a form of contemporary art. This approach institutional presence is best understood as a manifestation of the pluralism that makes the Art Institute a great contemporary museum. Photography takes many forms and can be put to many uses, and it is both a challenge and a pleasure to recognize that

Douglas Druick  
President and Executive Director  
of the Art Institute of Chicago

among a number of photographs made at randomly selected sites in Jerusalem, and judgments have been constrained to determine if any signs of the internal presence of our Biblical ancestors could be found within the natural environment of the Holy Land. The enlargements do, in fact, reveal the appearance of empty faces. For this work the artist has made conventional renderings of some of the faces to assure the perception of those who may not perceive in the same manner."

Huller initially explained this project in terms of his general concerns of the time. As in other works, the photographs were taken at random, without his subjective input, and fixed in an uneasy relationship with language. In this particular instance, he was thinking of "the well-known cultural myth that 'the gods are everywhere.'" On his video, the enlarged images and sketches appear to affirm the myth, but *Visible Face* stops, instead to which does the opposite of what is best claims. Rather than proving "the external presence of the biblical ancestors," Huller's *Visible Face* is a work devoted to an enlarged details of walls and traces behind the myth mentioned in the text. His critique of language, cliché, and myth was a broad ranging through many of his mid-1970s works ("I'm speaking against the responsibility of language. I'm speaking against the lies, the slipperiness of mythologies," he told Michael Auping in 1977), but these specific words were eerily prompted by the Israeli trip, and Huller's decision to mock particular language constructions ("The gods are everywhere" was also a precise response to the frequency of the phrase in the "Holy Land" where guidebooks would often proclaim "the eternal presence of our Biblical ancestors.") "Final phrases and myths served to mark the country to Jewish and Christian tourists, as too did the images of sites such as the Walling Wall and the Sea of Galilee that Huller would have seen in brochures and postcards. His current images of Israel—randomly enlarged images of buildings near the Damascus Gate—were among a number of such standard tourist images and all they tend to promote. (And it seems that Huller was unusually hostile to Israel, note that he made similar works two years later in London, where he played at the kind of promotional material supplied by the British heritage industry by taking photographs of the scenes of the London and closing to detect in their enlargements the faces of its prisoners.)

with a contact sheet and/or a single photograph, leaving the viewer to decide whether to associate the cliché with any particular person in the images."

In order as this discussion of Huller is concerned, a few limitations of the work warrant mention. The work by *Visible Face*, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 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Envision  
 A history of the  
 GE healthcare  
 business  
 The Early Years  
 The Middle Years  
 The Nelson Era

Leon Janssen and Gene Medford

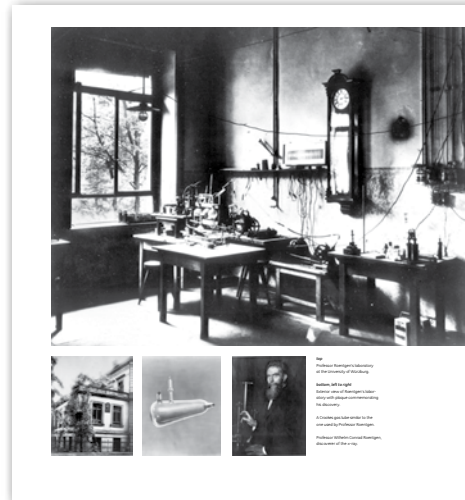


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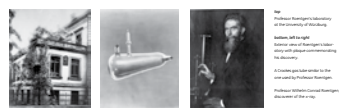


The Early Years  
 1893-1930

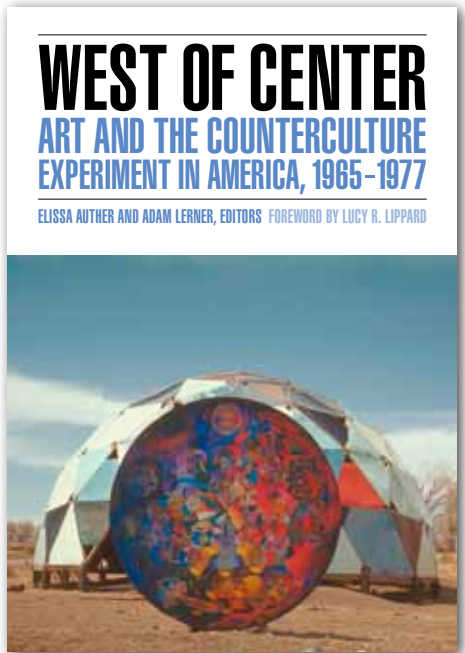


The discovery of x-rays in 1895 was as important a contribution to modern medicine as anesthesia and antibiotics. It is impossible to imagine health care today without the x-ray image, the fluoro screen, the mammography scanner, even those contemporary technologies that took their imaging cues from the loyal Radiographic & Fluoroscopic machine—such as ultrasound, nuclear medicine, computed tomography, magnetic resonance, positron emission tomography, and so on. However the x-ray didn't earn its key role without effort . . . and some controversy.

**Fortitude of Fluorium**  
 Wilhelm Conrad Roentgen was born in Lenningen, Germany, on March 27, 1845, and died in Munich, Bavaria, on February 10, 1923. Surprisingly, he did not enjoy an academic educational career. Being better qualified than high school is entitled, than being a college entrance exam taker, he was permitted to study at the University of Utrecht for a year without credit. There was opposition to the University of Utrecht. He was never recognized as an outstanding scholar; he graduated engineering and received his Ph.D. in physics at age 28 in 1874. He worked his way up the academic ladder and served as a professor of applied physics at the University of Groningen. He was never recognized as an outstanding scholar; he graduated engineering and received his Ph.D. in physics at age 28 in 1874. He worked his way up the academic ladder and served as a professor of applied physics at the University of Groningen. He was never recognized as an outstanding scholar; he graduated engineering and received his Ph.D. in physics at age 28 in 1874. He worked his way up the academic ladder and served as a professor of applied physics at the University of Groningen.







# WEST OF CENTER

## ART AND THE COUNTERCULTURE EXPERIMENT IN AMERICA, 1965-1977

ELISSA AUTHER AND ADAM LERNER, EDITORS FOREWORD BY LUCY R. LIPPARD

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## PART III

### CULTURAL POLITICS



#### CHAPTER 13

##### GODDESS: FEMINIST ART AND SPIRITUALITY IN THE 1970S

*Jenae Klein*

In 1972, Mary Beth Edelson, an artist and feminist activist, set out with her traveling companion, Anne Healy, to visit the Neolithic Goddess Cave on Grapceva in Ivica Island, part of the former Yugoslavia. Edelson was armed with the archeological maps in Marija Gimbutas's *The Gods and Goddesses of Old Europe, 2000-1500 BC: Myths, Legends, and Cult Images* as a reference source. Edelson managed to find an elderly tourist guide in the nearby town of Jela, who arranged for his son to take them up the mountain to the Neolithic site. The following day, carrying two Yugoslav flashlights and a number of candles, Edelson returned to the cave, where she engaged in a ritual designed to connect her to the power and female energy of the Neolithic Goddess worshippers. In an article about the experience that she later published in the *Great Goddess* issue of the journal *Heresies*, Edelson documented both her journey and the indescribable feelings that she encountered while practicing her rituals in such an ancient and sacred setting: "I felt one long hand extending across time, sending a jolt of energy into my body. I began my rituals—the energy from the rituals seemed to pulsate from the vaulted ceiling to me and back again." The photo documentation of Edelson's ritual, enacted with no artificial light other than the candles that Edelson had brought with them, show a nude figure that seems to glow from a spiritual fire that burns from within, seated in the midst of a fire circle (Figure 13.3). At the uppermost edge of the photograph the ceiling of the cave is just visible, as though the ritual took place in a womb-like structure.

Edelson's journey to Grapceva cave was taken long before Goddess tourism had turned into a thriving capitalist enterprise complete with tour guides, cruise ships, and well-marked, easy-to-locate archeological sites.<sup>1</sup> In order to journey to Grapceva, Edelson had unsuccessfully applied for a number of grants. She finally sold her car in order to finance her pilgrimage/performance/artwork. When she went to the Balkans, Edelson had been doing ritualistic performances such as *See for Yourself* at various sites in the United States, particularly in Los Angeles and New York, where cultural feminism was strongest. Deeply committed to feminist spirituality and radical leftist politics, Edelson viewed her embrace of feminist spirituality—albeit feminist spirituality that was grounded in an overarching, universal worldview—as a catalyst for her political activism.

Unlike other gender radical movements such as gay rights or even radical feminism, feminist spirituality has always remained on the margins of mainstream culture and academic acceptability. To this day, the nature Goddess witch figure is depicted as monstrous, abject, and horrific. In this paper, I return to feminist artwork that references the Goddess in order to answer the following questions. First, what is feminist spirituality? Second, why was feminist spirituality so appealing to artists, particularly artists based on the West Coast? Third, what is the relationship between feminist spirituality and the counterculture movements such as consciousness raising? Fourth, why has feminist art that references spirituality

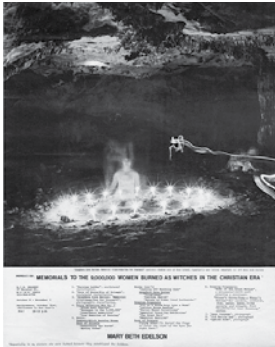


Figure 133  
Mary Beth Gleason, *Global  
Healing: Civil Service Seal for  
Warmed*, 1977. Image used to  
illustrate the author's book  
gallery exhibition *Memorial to  
the Goddess* in the Christian Era  
Image courtesy of Mary Beth  
Gleason and the Women's Building  
Archives, Ohio College.

and events celebrating the thirtieth anniversary of the founding of the Woman's Building, and two major exhibitions of feminist art in 2007, *Wack! Art of the Feminist Revolution* (Los Angeles) and *Global Feminisms: New Directions in Feminist Art* (New York). Feminist art historians and critics have shied away from mentioning the invocation of feminist spirituality and the Goddess in this art, preferring instead to engage it in terms of contemporary theory, such as the use and meaning of the body, the performative articulation of identities, and its relationship to contemporary feminist activist art. For feminist critics writing sympathetically about '70s feminist art in the postmodern '90s the Goddess—and the counterculture's liberation of the self and body in the name of alternative politics—was the unacknowledged white elephant in the room of the feminist body of art. I propose to revisit feminist theology as it was constructed and articulated at the time, in order to understand what it meant to feminist artists in the '70s and what it might mean to artists and critics working today.

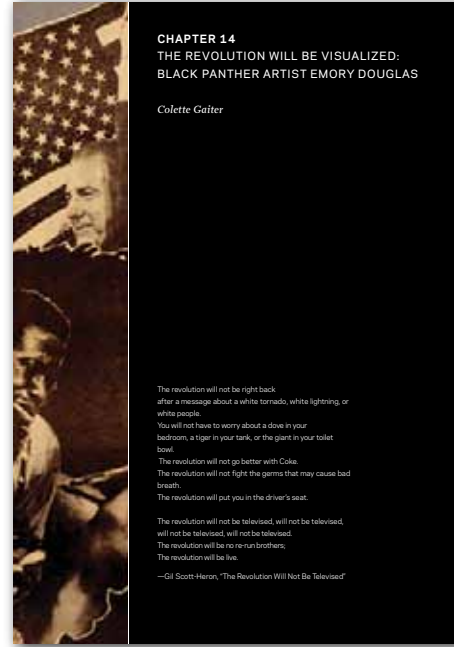
**ARTISTS AND CULTURAL FEMINISM**

In the early to late '70s, cultural feminism, with its emphasis on feminist spiritualities including Goddess worship, was in its ascendancy. In 1973, Mary Daly published *Beyond God the Father*, which called for the complete disavowal of all patriarchal systems, including religious systems, and the creation of a cosmic covenant of sisterhood through the raising of female consciousness. *Beyond God the Father* was quickly joined by a number of nonacademic publications on feminist spirituality, ecofeminism, and the Goddess such as Merlin Stone, *When God Was a Woman*, Adrienne Rich, *Of Women Born*, Susan Griffin, *Woman and Nature: The Rearing Inside Her*, and Daly's follow-up to *Beyond God, On Ecology: The Metaphysics of Radical Feminism*. It did not take long for feminist artists on both the East and West Coasts to embrace the philosophical and cultural approach of the writers listed above and to in turn engage in a practice that engendered more debate.

Women's spirituality was very appealing to visual artists for several reasons. First, "proof" of the existence of ancient matriarchal cultures existed in the form of small, anthropomorphic sculptures, ephemeral cave paintings, and monumental stone structures from the prehistoric era that appeared to be female and that cultural feminists assumed were priestesses and Goddess figures, giving many artists an already existing bank of nonpatriarchal images to tap into. Betsy Damon's *The 2,000 Year Old Woman* (1977) referenced the many-breasted Diana of Ephesus, associated with a Neolithic Goddess site in Turkey where she had lived as a child. Covered in small bags of colored flour that she ritually punctured in a public ceremony on Wall Street, Damon eventually formed a spiral/labyrinthine pattern on the ground (Figure 13.4). Damon based *The 2,000 Year Old Woman* on a dream that she had had years before. She resolved to realize the images in her dream. Cheri Gaikie employed a video image

and/or the Goddess continued to be marginalized in discussions of that art, even by scholars who are very sympathetic to the artwork?

When I first began researching this topic, it struck me that a lacuna existed in this particular area of feminist art scholarship. Much of the feminist artwork made in the mid-1970s to late 1980s was informed by cultural feminism, which emphasized feminist separation, the value of female connections, and feminist spirituality/embodiment of the Goddess. Sympathetic art critics such as Lucy K. Lippard, Gloria Osores, and Arlene Raven readily acknowledged this influence on feminist art, documenting it in their published criticism. Even though there was a renewed critical interest in the mid- to late '90s in this artwork, documented in important exhibitions such as *Scandal Politics* curated by Amelia Jones in 1996, there has been very little mention of the role played by feminist spirituality and belief in the Goddess for these artists. Nor has feminist spirituality been addressed in any systematic manner today, in spite of a recently published biography on Judy Chicago, a number of panels



**CHAPTER 14  
THE REVOLUTION WILL BE VISUALIZED:  
BLACK PANTHER ARTIST EMORY DOUGLAS**

Collette Gaiter

The revolution will not be right back  
after a message about a white terrorist, white lightning, or  
white people.  
You will not have to worry about a dove in your  
bedroom, a tiger in your tank, or the giant in your toilet  
bowl.

The revolution will not go better with Cola.  
The revolution will not fight the germs that may cause bad  
breath.

The revolution will put you in the driver's seat.

The revolution will not be televised, will not be televised,  
will not be televised, will not be televised.  
The revolution will not be brothers.  
The revolution will be live.

—Gil Scott-Heron, "The Revolution Will Not Be Televised"

Figure 14.1  
Emory Douglas, *Shoot to Kill*,  
from *Black Panther newspaper*, August  
21, 1971. Gift from  
Whitman. Copyright 2010  
Emory Douglas. All Rights Reserved.

In a 1996 editorial, managing editor Frank Jones stated that Douglas had "shown himself with full force into the world liberation movement, and had done so with consummate skill and highly developed revolutionary concepts. His combination of ability and ideology makes him a complete revolutionary man." Jones went on to say that "if not for the directness of Emory's work, many of the ideas of the revolutionary movement would have escaped the attention and awareness of a large number of active revolutionary advocates." In concert with the goals of the Panther Party, Douglas's body of work played a major role in two formations that continue to grow—black cultural liberation and the increasing dominance of images over words in cultural production. His work used a graphically bold visual style to inspire, instruct, and confront.

**REVOLUTIONARY ART AS AN ESSENTIAL PART OF LIBERATION**

Douglas visualized working and poor black people as they had never been seen before in American mass media. His was a revolution of representation, giving visual expression to the conditions and feelings of oppression in Black communities. As he explained, "Before a correct visual interpretation of the struggle can be given, we must recognize that Revolutionary Art is an art that flows from the people. It must be a whole and living part of the people's lives and their daily struggle to survive." Many of his images were also hopeful, illustrating the perseverance and integrity of black people in the face of adversity. Children were among his favorite subjects, and their presence in his compositions was meant to suggest a changed future.

The use of the child in the poster titled "We Shall Survive without a Doubt" is typical of Douglas's inspirational work (Figure 14.1). The smiling boy wears glasses that metaphorically see a brighter future. One of Douglas's favorite devices was to embed images within images, like those in the boy's glasses and in the buttons on his hat. A woman instructs a child in one lens, and the other shows the Panthers' breakfast program, one of their most notable achievements. Other formal devices used in the image are bold, black lines that signify strength, confidence, and purpose. The textures in the boy's hat are created by a grid of rubdown vinyl sheets, one of the graphic tools of the time that helped artists fill in large areas quickly. These two methods and processes were used throughout Douglas's body of work and represent a central element of his signature style.

The red rays emanating from the boy's head are typical of Douglas's "beatification" of some subjects. Like the halo around the heads of saints in early Renaissance paintings, these rays came to be part of revolutionary iconography in images possessing a wide range of artists, the heads of Fidel Castro, murdered Black Panthers, and international high-profile figures were surrounded by these rays, indicating that the subjects deserved special respect. In the pages of the *Black Panther*

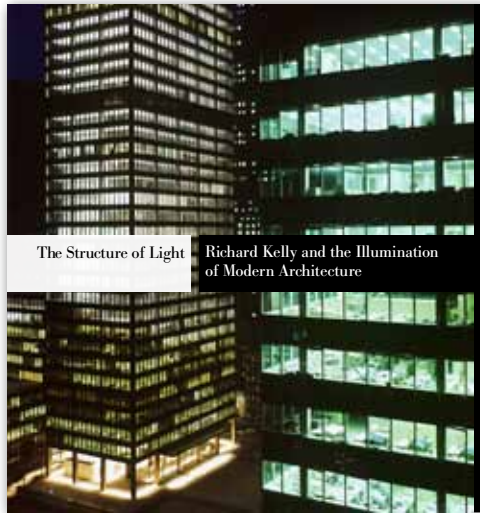


Figure 14.4  
Emory Douglas, *Shoot to Kill*,  
from *Black Panther newspaper*,  
January 20, 1971. Gift from  
Whitman. Copyright 2010  
Emory Douglas/Arts and  
Letters. All Rights Reserved.

These are the weapons created by Douglas, who explained: "We try to create an atmosphere for the vast majority of black people—who aren't readers but activists... through their observation of our work, they feel they have the right to destroy the enemy." Douglas's images metaphorically fought back, through cartoons of evicted police as pigs or drawings of armed black revolutionaries. In his cartoons and illustrations, he created images that did not exist but that allowed people to reimagine what they had known as reality. Douglas's skillful deployment of semiotics helped him use art as a weapon and a tool.

The people in Douglas's drawings controlled their lives and destinies in their own homes and communities. His work showed armed women protecting their families from police, and children studying black history in all-black schools. Douglas's art helped black people imagine an alternate reality that was partially realized by Panther Party programs. For instance, in *Shoot to Kill* Douglas used his signature style of bold outlines and flat areas of color and texture to illustrate an incident of self-defense (Figure 14.4). This poster is representative of those by Douglas meant to be instructional—in this case, illustrating defense against unlawful entry by police or other authorities. Using exaggeration, Douglas made the intruder a storm trooper, wearing a suit of body armor that functions like an insect skin. The uniform/costume resembles (and pre-dates) the Star Wars movies' storm troopers, who were dressed in similar suits. In this drawing, the room's isometric perspective makes it easier to read the story behind objects strewn on the floor. The indistinct crumbling plaster indicates disrepair and poverty. Spent ammunition and the barrel of a shotgun illustrate how the storm trooper came to be lying on the floor with blood pouring from his center. He was barely armed, with a shotgun still clenched in his hand and a pistol falling out of his holster around his hip. A broken door hinge shows that the "fascist" (so named by Douglas's text at the top of the poster) forced his way in. Indicated by just her bare legs and feet under a dress, a Black woman, educated in self-defense by the Panthers, has successfully defended her impoverished home against the white storm trooper, who represents all abusive authority figures in uniform. As the image's title reads, "Every door that the fascist attempts to kick down will put them deeper into the pit of death." Hyperbole, melodrama, and sensationalism in the form of strong imagery are essential to Douglas's messages of self-empowerment. Like this example, the anger in his images seems directly relational to the perceived damage of oppression through a history of white supremacy in the United States. "Shoot to Kill," the text at the bottom of the poster, needs to be framed in this context.

Douglas's cartoons are the most controversial of his work for the *Black Panther*. They are disturbing or inspiring, depending on the audience's perception. While back-page posters in the newspaper often featured empathic portraits of the black people Douglas knew in the San Francisco Bay Area, other pages of the paper contained startling cartoons of aggressive



The Structure of Light Richard Kelly and the Illumination of Modern Architecture



# Theater, Lights, and Architecture

## The Career of Richard Kelly

Dietrich Neumann

"Thousands of years went by with their change of style," the prominent architectural critic Frank Hurdell wrote in 1931, "but not until this century was there electric light, which, for far more than the familiar tint of red glass and concrete, has changed the face of all architecture." Inspired by Hugh Ferriss's visionary drawings of the "Metropolis of Tomorrow," Hurdell had identified a specifically American technical modernism. "By the night, the Empire got the day. . . . [T]he city . . . here is modernism indeed!" While Hurdell had, for the sake of his argument, simplified the rather complex field of technical innovation and aesthetic characteristics, he was correct in recognizing the rising importance of illumination in architecture. His essay came on the heels of a nationwide celebration of the fifth anniversary of Thomas Edison's invention of the light bulb and a general awareness of the epochal changes that it had already brought and promised for the future.<sup>1</sup>

For Richard Kelly, who arrived in New York City from Ohio in 1948, already familiar with theater and lighting design, those changes were visible everywhere, and in particular on Broadway. The domain of a new generation of sophisticated stage lights in most theaters was marked by powerful new approaches to architectural illumination outside city hall. Nowhere else in the world could one find a similar concentration of lighting designers, engineering firms, and manufacturers specializing in the development of new equipment. New York was the ideal environment for the emergence of the new craft of lighting design and became the forge ground for Richard Kelly's remarkable career. He was neither the first nor the only lighting-designer applying ideas and techniques to architectural illumination whose roots could be traced back to the theater, but he certainly arose professionally for his ability to work with great theater shows, and his illumination concepts for buildings of major importance and visibility rank him the most prominent member of the profession in midcentury. His own ideas as well as those he adopted and modified helped shape and finally define a particular vocabulary for the application of artificial light in modern architecture.

### Lights in the City

In 1927 the theater critic Arthur Edwin Kroeber claimed in the *New York Times* that theater's greatest gifts to the theater were the advances in "stage lighting." Kroeber's statement was more prescient than accurate at that point, as the major technical and creative developments in stage illumination were only just beginning. In the years immediately following World War I, spotlights, dimmers, and lighting control panels appeared along with colored light, colorizers, and lighting effects to give the audience's attention. Consider that "the story of a play may be told in light," Kroeber was one of the first to controversially discuss this newly emerging art.<sup>2</sup> It is probably no coincidence that significant innovation occurred in the years when the rising competition from movies threatened the sur-

vival of live drama. The new medium of film had distinct disadvantages—being black and white, silent, and two-dimensional—but it could give an audience the illusion of movement, something that it is forever lost to time, and stage scenes in its format. The new theater lights increased flexibility, as the mood of a scene or the time of day could quickly change; the actors could be focused on different parts of the stage, and gestures moving, often effective because possible, instantly, as designers considered lighting part of their work and would engage the theater electrician to color and maintain readily the lamps. Beginning in the early 1930s, however, more and more lighting designers for the theater were given individual credit in playbills and developed recognizable signature styles.<sup>3</sup>

Norman MacKenzie, for example, theater man, architect, and industrial designer, attracted considerable attention in years when he published drawings for an imagined staging of *Demetrius the Undefeated*, in which the "lighting varies every moment of the performance."<sup>4</sup> The German director Max Reinhardt hired Gollub for his production of *The Merchant of Venice*, for which the Century Theatre in New York was transformed into a Gothic cathedral, illuminated differently for each scene with hidden floodlights and back-cast glass windows.<sup>5</sup> Throughout the 1930s Gollub taught courses on scene design and lighting privately in New York City.<sup>6</sup>

Robert Edmund Jones was another pioneer of the field in the early 1930s, as both a stage set and lighting designer. According to colleague Joe Mitchell: "Jones never developed a design without constant consultation of what light would do to form and to color. Studios are no longer for him just the absence of light, but in itself something to be measured and controlled and made responsive. . . . [T]he brilliance, the imaginative scope of Jones's designs, were measured, heightened by his sensitive control of the power and beauty of dramatic lighting."<sup>7</sup> The newly available lighting technologies brought greater control of the medium and greater freedom to apply it. This led for the first time to serious discussion about the artistic approach to stage lighting. The Illuminating Engineering Society hosted lectures by theater lighting designers, including Louis Hartmann, who had worked for several decades with David Belasco, an architect and lighting designer. Claude Roughton's *Scenes* a number of books appeared on the subject, such as *Stage Lighting by Theatrical Electricians* in 1925, *Theater Lighting by Louis Hartmann* in 1926, and *A Method of Lighting the Stage* by Stanley McCandless in 1928.

McCandless held the first chair for theater lighting design in the country at Yale University, from whose Department of Drama such innovations in the field originated. By 1931 it was the school's computer department, headed in 1924 by Edward C. Robinson, who had helped underwrite the building of the University Theatre, designed by James Gamble Rogers. By the late thirties George Pierce Baker had been a faculty member at Harvard's English Department for thirty-one years and was



Fig. 1. Scene Stage, New York, circa 1930s or 1940s

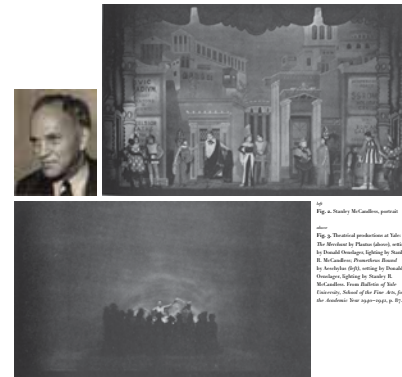


Fig. 2. Stanley McCandless, portrait photo  
Fig. 3. Theater production at Yale. The Webster in Drama Society setting by Donald O'Connell, lighting by Donald O'Connell, Production Board by Kenneth Dyer, setting by Donald O'Connell, lighting by Stanley McCandless. From Bulletin of Yale University School of Fine Arts, for the Academic Year 1929-1930, p. 80.

which considered the foremost number of playwrights in the country. But he also had a keen eye for emerging trends, and he turned the Yale theater into a leading center for innovative stage techniques. Baker had opened the doors of two of his recent students at Harvard: Stanley McCandless and Donald O'Connell, and in 1927 he hired them. Both had participated in the Harvard Dramatic Club and graduated in 1925. O'Connell, with an English degree and McCandless from the architecture school. After a year of traveling on a fellowship, McCandless worked for McKim, Mead, and White for two years, then when Baker asked him to join Yale's Drama Department as lighting consultant and technical instructor. O'Connell had traveled to Europe after graduation to study the stage designs of Edward Gordon Craig and Adolph Apper, whose atmospheric and minimalist stage sets from beams of light influenced him deeply. After working as an actor in New York and landing his very first job as a set designer, he joined the Yale faculty in 1927. George Charles Lessor came to Yale's Drama Department in 1930, at twenty-seven, as head of the theater design workshop, where he worked on technically sophisticated stage lighting systems.

Stanley McCandless, who became an associate professor at Yale in 1935, is mostly remembered today for his publications on theater lighting, such as *A Bulletin of Stage Lighting* (1931) and *A Method of Lighting the Stage*, as well as the "McCandless method" of lighting scenery and decoration to an actor's feature with the help of additional colored spotlights from two directions. McCandless was an important character for several generations of lighting-designers at Yale, such as Jon Bonnell, Claude Roughton, Joe Baker, and Thomas Wilkins, and he produced the lighting for a number of plays at Yale, often collaborating with O'Connell, who became one of the most prominent set and lighting designers on Broadway (Fig. 3). The architect at Yale held hundreds of lectures drawn from McCandless's lectures and careful drawings explaining the flow of light from different types of lamps and the reflective qualities of the properties. McCandless was also the kind of mentor and developer at Century Lighting in New York, since 1933 one of the major developers of theater and architectural lighting equipment.

As a trained architect, McCandless early on suggested a transfer of ideas from theater lighting to the home, as a time when the identification of middle-class houses had reached a saturation point. In 1936 he observed: "Light can influence our feelings in regard to a certain place, in other words . . . as designers we can control the individual mood to some degree by means of light. . . . It involves the understanding of how light affects the individual and thus providing the means for producing that light. The designer's job in the future, and he depends upon the engineer to supply the latter." In 1937 he wrote: "It was not to the theater to use an effectively light as well as produce mood, it gave us some hope that perhaps before long we can achieve the proper atmosphere in our



Fig. 4. Eric Sautman, Kruger Chapel at Massachusetts Institute of Technology, Cambridge, Massachusetts, 1933, interior view. Lighting design: Stanley McCandless. Photograph by Dale G. Rice.

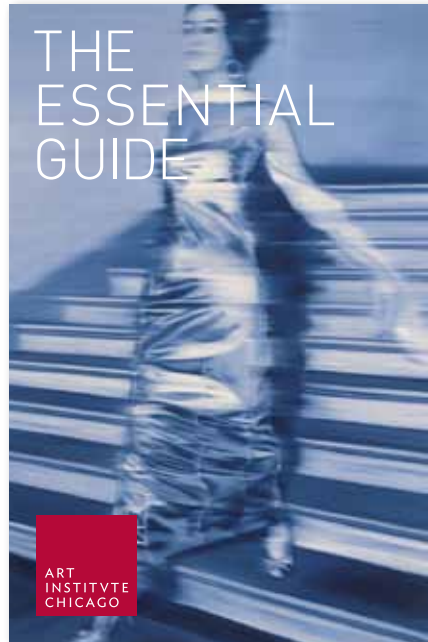
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# THE ESSENTIAL GUIDE

ART INSTITUTE CHICAGO

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**PETER BLUME** American, born Russia [present-day Belarus], 1906–1992  
*The Rock, 1944-48*  
 Oil on canvas, 144 x 188.0 cm (58 x 74 in.)  
 Gift of Edgar Kaufmann, Jr., 1954.338

When it was exhibited at the Carnegie International in Pittsburgh in 1950, *The Rock* was voted the show's most popular painting. Peter Blume's dramatic image of a shattered but enduring rock must have struck a responsive chord in many post-World War II viewers. Displaying a startling juxtaposition of images, the work evokes Surrealist dreamscapes made even more vivid by meticulous brushwork inspired by fifteenth- and sixteenth-century northern European painting. Although Blume's imagery resists easy interpretation, the work suggests a parable of destruction and reconstruction. The jagged rock looms at the center of the composition, still upright despite the removal of its base by workers below. On the right, smoke billows around the charred timbers of a house, an image that might allude to the bombing of London during World War II. On the left, a new building, encased in scaffolding, rises as laborers in the foreground cart slabs of stone toward it. The new structure recalls Frank Lloyd Wright's famous Fallingwater (1935–37), in southwestern Pennsylvania, the residence for which Liliane and Edgar Kaufmann commissioned the painting. Their son Edgar Kaufmann, Jr., donated *The Rock* to the Art Institute in 1956.



ARCHITECTURE AND DESIGN

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**TOKUJIN YOSHIOKA** Japanese, born 1967  
*Honey-Pop Armchair, 2001*  
 Honeycomb paper construction consisting of white wove, highly calendered paper; 79 x 4 x 81.3 x 81.3 cm (31 x 23 x 32 in.) (unfolded)  
 Restricted gift of Architecture and Design Society, 2007.111

Tokujin Yoshioka's unfettered creativity was greatly nurtured by fashion designer Issey Miyake, who hired the young designer in 1988. His lack of specific fashion training left him free to experiment with unexpected materials. The designer's *Honey-Pop Armchair* defies the notion of furniture as merely functional. Both sculptural and ethereal, the chair, made entirely of paper, plays upon the intangible idea of an object and the materiality of its being. Without an underlying frame, the chair is like an oversize, intricate work of origami, supported entirely by a complex of hexagons made out of 120 layers of paper glued together. The name *Honey-Pop* refers not only to its appearance as a giant honeycomb but also to the legacy of Pop Art, which championed commonplace yet unorthodox materials. The *Honey-Pop Armchair* debuted at the 2001 Milan International Furniture Fair. In assembly-line fashion, Yoshioka laid out a thick roll of the layered paper, cutting out seat shapes, which he opened up like a book to create the chair and reveal its seemingly insubstantial honeycomb structure. To show its tensile strength, Yoshioka sat on the chair, demonstrating how the weight of his body actually fixed the paper folds into place.



**HERNAN DÍAZ ALONSO** American, born Argentina 1969  
*Sur, Long Island City, New York, 2005*  
 Acrylic and nylon; 7.6 x 6.1 x 23 cm (3 x 2.4 x 13 in.)  
 Department of Architecture and Design Purchase Fund, 2006.311

Since its inception in the early 1990s, digital architecture has moved into widening frontiers, fusing with other disciplines to enable unexpected formal explorations and generate new typologies that are changing the way in which structures are aestheticized and fabricated. As the field has matured, Hernan Diaz Alonso, principal architect of the Los Angeles firm Xefrotatrch, has emerged as a significant figure; his studio's grotesque, animal-like forms exemplify just how far digital practice has evolved. Shown here is the model for *Sur*, the firm's winning entry for the Museum of Modern Art's P.S.1 Young Architects Program. The piece is composed of an acrylic surface that supports three-dimensional forms printed from nylon composite. The actual pavilion was constructed of bent aluminum tubing clad with reflective fabric sheathing and fiberglass benches and platforms painted Ferrari red. The title *Sur*, taken from a popular Argentine tango, refers to the rhythmic forms of the work. While Diaz Alonso draws freely from a wide range of visual arts disciplines—especially film and video—he combines these influences with digital manipulation and distortion to explore the limits of beauty and scale. His constructions reintroduce an experimental notion of figuration to the pedagogy and practice of digital architecture.

ARCHITECTURE AND DESIGN 77

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**YANG PU MOVING HIS FAMILY (DETAIL)**  
 Chinese, Yuan dynasty (1279–1368), late 13th century  
 Handscroll, ink and light color on paper; 52.7 x 231.1 cm (20 7/8 x 91 in.)  
 Kate S. Buckingham Endowment, 1952.9

With a lively combination of realism and caricature, this detail of the painting *Yang Pu Moving His Family* depicts a group of peasants transporting a rustic scholar and his family across a stream. Distinguished by his official government cap, with its long streamers, the otherwise disheveled, bare-legged scholar bids farewell to his neighbors from the shallow water. Servants valiantly attempt to carry children and the family's belongings—scrolls, furniture, and dishes—through the water. The scholar depicted here may represent Yang Pu, a character described in stories of the Southern Song dynasty (1127–1279). According to folklore, Yang Pu initially declined, and then reluctantly accepted, his appointment to a government position in the capital city. As Chinese law forbade civil officials from working in their native districts, many were required to move to distant cities. Painters and poets frequently depicted the theme of farewell or "rookie parting" exemplified by the story of Yang Pu. The crags that protrude from the official caps of the men depicted here may allude to the ancient Chinese custom of presenting departing friends with small branches from a willow tree.

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**LI HUAYI** American, born China 1948  
*Landscape, 2002*  
 Ink and color on paper; 102 x 98.3 cm (71 1/4 x 38 7/8 in.)  
 Corner Foundation Fund, 2004.450

Impressive in scale and refinement, this dramatic ravine evokes the monumental landscapes attributed to China's foremost painters of the tenth and eleventh centuries. Like those early masters, Li Huayi captured the continuous momentum and flux of nature. Steeply curving banks edged by windwept trees tower precariously over the water, whose receding flow is echoed by the cloudlike mist hovering above. This majestically dynamic image is rendered most remarkable by the artist's distinctively rigorous but expressive method of painting. After defining the composition with large areas of ink spilled onto the paper or worked with a broad brush, Li gradually rendered mass and solidity with denser layers and then allowed the paper to dry before adding details with a small, finely tapered brush. Trained in Shanghai and San Francisco and now living in the United States, Li Huayi is one of the most creative and accomplished Chinese painters working today. By the artist's own account, powerfully fresh landscapes such as this do not reflect direct observation of nature but rather exist only in his mind.

ASIAN AND ANCIENT ART 89



**TOSA MITSUOKI** Japanese, 1517–1601  
*Flowering Cherry and Autumn Maple with Poem Slips*, 1654–81  
 Pair of six-panel screens, ink, color, gold leaf, and powder on silk each 144 x 286 cm (57 1/4 x 100 3/8 in.)  
 Katz S. Buckingham Collection, 1977-196-97

Japanese aristocrats engaged in the elegant custom of recollecting classical poetry while viewing spring and autumn foliage. In these delicate screens, premier court painter Tosa Mitsuoki meditated on the inevitable passage of beauty by depicting the melancholy hours after the departure of reveling courtiers. A cherry tree bursts into bloom on the top screen, while its mate displays the brilliant red and gold foliage of a maple in autumn. Slips of poetry, called *tanzaku*, wait from the blossoming limbs, the remaining evidence of a human presence. Courtiers (whose names are recorded in a seventeenth-century document) assisted Mitsuoki by inscribing the narrow strips with legible quotations of appropriate seasonal poetry from twelfth- and thirteenth-century anthologies. The screens were either commissioned by or given to Tōfukunon'in (1607–1678), a daughter of the Tokugawa shōgun who married the emperor Gomizunoo (1596–1680). In an era otherwise marked by increasing control of the feudal shōgunate over imperial prerogatives, this royal couple encouraged a renaissance of courtly taste that nostalgically evoked the past glories of early-medieval aristocratic life.



**IKE TAIGA** Japanese, 1723–1776  
*Group Pilgrimage to the Jizō Nun*, 1755/65

Hanging scroll, ink on paper: 54.9 x 123.2 cm (21 5/8 x 48 7/8 in.)  
 Katz S. Buckingham Endowment; Margaret Gertrude Fund; restricted gift of Roger L. Weston, George and Roberta Mann, Harlow and Susan Higginbotham, Charles C. Halffner III, and James M. and Carol D. Trapp, 2005.168

Ike Taiga was a revolutionary known for revitalizing Japanese painting traditions in the eighteenth century. He infused the Chinese-inspired ink painting (*suibō*) that was gaining favor among intellectuals in Kyoto with a purely Japanese aesthetic and humor. *Group Pilgrimage to the Jizō Nun* is a snapshot of contemporary life in Japan presented from Taiga's unique perspective. The print depicts pilgrims making offerings to the Jizō nun, a holy woman believed to be able to communicate with the bodhisattva Jizō, who had the power to save souls in the afterlife.

*Group Pilgrimage* contains an inscription relating the story of the Jizō nun. Taiga was a master calligrapher, poet, and seal carver and was well versed in all forms of writing, from ancient seal script to cursive kana. Here he rendered the inscription in a cursive, informal style very much in keeping with the spontaneity of the painting itself. Taiga was also renowned for his use of finger painting and other odd techniques. Although opinions vary as to whether or not this work is a finger painting, it is clear that Taiga did not use a traditional brush. It seems likely that this could be a "paper twist painting," in which the artist worked with scraps of twisted paper charged with ink.



**LOUISE LAWLER** American, born 1947  
*Alligator*, 1985; *Untitled*, 1987; *Monogram*, 1984

Silver dye-bleach prints, 98.4 x 64.8 cm (38 3/4 x 25 1/2 in.); 99.7 x 70.5 cm (39 1/4 x 27 3/8 in.); 100.3 x 71.1 cm (39 1/2 x 28 in.)  
 Through prior gift of Leo Gutman; through prior acquisition of Marguerite S. Ritman, 2006.171-72, 2006.170

Since the early 1980s, Louise Lawler has photographed works of art installed in auction houses, corporate headquarters, galleries, museums, and private homes in order to demonstrate how an object's display and contextualization can shape its meaning. The resulting images transcend pure documentation. Her appropriation of works in situ addresses the broader social and economic issues that structure modes of presentation. These early photographs, often displayed as a triptych, deal with the theme of monogramming and, by extension, personal vanity. Depicting a coach with a Lacoste emblem, *Alligator* draws our attention to the Donald Judd sculpture above it and the reflection of the artist in its surface. *Untitled* shows a Jasper Johns painting, visible through the clear glass of a vitrine that echoes Robert Rauschenberg's oddly titled *Monogram* (1957-59; Moderna Museet, Stockholm). Lastly, *Monogram* depicts John's *White Flag* (1955; Metropolitan Museum of Art, New York) hanging over a bed with a duster lavishly embroidered with the owner's initials. This sequence shows that Lawler is constantly making connections between various categories of signs, curatorial concerns of private collectors and museums, and the questions raised by redisplaying these pieces as the subject matter of "original" works of art.



**JEFF WALL** Canadian, born 1946  
*The Flooded Grave*, 1998–2000

Silver dye-bleach transparency, aluminum light box, 228.6 x 282 cm (89 7/8 x 111 in.)  
 Gift of Pamela J. and Michael W. Alper; Claire and Gordon Prussian Fund for Contemporary Art; Harold L. Stuart Endowment; through prior acquisition of the Mary and Leigh Block Collection, 2001.161

Jeff Wall uses state-of-the-art photographic and computer technology to create images that evoke the composition, scale, and ambitions of the grandest history paintings. His works frequently have the formal clarity of documentary photography or photojournalism; however, he often relies on staged or constructed artifice. Unrivaled in its technical complexity, this image is the result of two years of work, during which the artist faced countless photographs of both documentary and fabricated scenes into a single, surreal whole. After taking pictures in two Vancouver cemeteries over the course of several months, Wall built an aquatic system in his studio, crafting the tank from a plaster cast of an actual grave. With the aid of marine life specialists, the artist cultivated a living, underwater ecosystem identical to one found off the coast of Vancouver. In the finished product, the two worlds are married through a technical process that presents the illusion of a water-filled grave. *The Flooded Grave* therefore challenges the notion of the photograph as the record of a single moment in time; instead, it is an elaborate fantasy on the subconscious life of the image it projects.



**BALTHUS (BALTUSZ KLOSSOWSKI DE ROLA)** French, 1908–2001  
*Solitaire*, 1943  
 Oil on canvas, 161.3 x 143.5 cm (63 1/2 x 56 1/2 in.)  
 Joseph Winterbotham Collection, 1964.177

Balthus was born into an educated and artistic, but impoverished, family of Polish aristocrats who had fled political and economic turmoil to settle in Paris. As a young man, he traveled to Italy to study such Old Masters as Piero della Francesca. Aside from this direct experience, Balthus received little formal schooling; this permitted him to develop his own unique artistic vision. In 1933 Balthus began painting the erotically charged images for which he is best known—enigmatic scenes of young girls lost in reveries that often place the viewer in the position of voyeur. Balthus spent most of World War II in Switzerland, where in 1943 he painted *Solitaire*. The striking posture of the girl, deep in thought as she considers the cards on the table, is one the artist used in a number of earlier works. The insistent verticals of the patterned wallpaper create a counterpoint to the diagonal of the girl's back; the mysterious expression of her shadowed face contrasts with the strong, raking light that defines her delicate, long fingers. These details suggest how carefully Balthus orchestrated the painting's unsettling emotional tenor.



**THE PHEASANTS, FROM VERDURES DU VATICAN**  
 1783/89

Designed by Jean-Démosthène Dugoure (French, 1749–1825)  
 Woven and produced by Camille Perron et Cie  
 Silk, warp-float faced 7/1 satin weave with plain interlacing of secondary binding warps and supplementary brocading wefts; embroidered with silk in chain (tambour work) and satin stitches; 242.5 x 64.5 cm (95 1/2 x 17 1/2 in.)  
 Restricted gift of Mrs. Chauncey B. Borland, 1942.12

Perhaps the last great name connected with the French silk industry in the late eighteenth and early nineteenth centuries is that of Jean-Démosthène Dugoure. A designer of costumes and stage decorations for the French opera, he was also the superintendent of buildings and designer of Gard-meuble for the Duc d'Orléans. Dugoure was the most outstanding interior decorator of his time, and from 1774 to 1792, he produced designs for the silk manufacturer Camille Perron of Lyon. Educated in Italy for a time, Dugoure was familiar with the antique motifs that Raphael had revived in his fresco decorations for the Vatican Loggia, part of the papal palace in Rome. In fact, the French designer titled a group of textile patterns *Verdures du Vatican*. *The Pheasants*, which was designed for the Spanish royal palace in Madrid, is part of this series. The elaborate composition encompasses a lavish, symmetrical interplay of birds, baskets, strings of pearls, garlands, and ribbons—all realized with the excellence of workmanship that made French silks so desirable.



**PANEL**  
 c. 1786

Designed by Jean-Baptiste Huet (French, 1745–1811)  
 Design inspired by Jean-Baptiste Pillement (French, 1728–1808)  
 Linen, plain weave; copperplate printed; 274 x 99.1 cm (107 3/4 x 39 in.)  
 Gift of Robert Altman, 1924.499

Copperplate printing reached England via Ireland and then found its way to France, where one of the country's most important printing centers was established at Jouy-en-Josas by Christopher-Philippe Oberkampf in 1760. Jean-Baptiste Huet trained as a painter and was chief designer at the Jouy-en-Josas Manufactory for twenty-eight years. His chinoiserie scene presents a theme that fascinated Europeans, particularly during the eighteenth century. Entire rooms in palaces and hotels were decorated with furniture, porcelain, metal, lacquerwork, and fabrics, all conceived as whimsical, highly westernized versions of Far Eastern forms, designs, and motifs. Many a European garden encompassed a latticed teahouse or pagoda not unlike those pictured here. Panels such as this, with their large-scale repeats, would have been used on chairs and sofas, as well as to cover vast expanses of wall.

A PROJECT OF THE  
DESIGN TRUST  
FOR PUBLIC SPACE

# THE TAXI 07 EXHIBIT



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**TRANSFORMING AN ICON**

THE LAST SIGNIFICANT EFFORT WITHIN THE DESIGN COMMUNITY TO CHANGE THE NEW YORK TAXI WAS THE MUSEUM OF MODERN ART'S AMBITIOUS EXHIBITION IN 1976, FOR WHICH SEVERAL PROTOTYPES OF NEW TAXIS WERE CREATED... BUT THE EXHIBITION HAD LITTLE EFFECT, LARGELY BECAUSE NEITHER THE TAXI INDUSTRY NOR THE MAJOR AMERICAN AUTOMOTIVE MANUFACTURERS PLAYED AN ACTIVE ROLE. FOR THE CURRENT INITIATIVE, THE DESIGN TRUST SOUGHT TO BUILD A WIDE COALITION OF PARTICIPANTS... A PREMISE FROM THE OUTSET WAS THE RECOGNITION THAT THIS EFFORT WOULD NOT SUCCEED IF IT CONSISTED ONLY OF DESIGNERS TALKING TO OTHER DESIGNERS.

**PAUL GOLDBERGER**  
"A TAXI IS NOT A CAR"  
NOVEMBER 2005

Having a yellow cab—with its promise of freedom, power, and anonymity—is the quintessential New York City act. So deeply rooted is this notion that visitors count having a cab among top tourist attractions, like visiting the Empire State Building or Rockefeller Center. Step off the curb, stick an arm in the air, and it can take you where you want to go—day or night.

But like so many legends unrooted to person, the reality is disappointing. With their many makeshift adaptations, wrought-over decades, current cabs, which passengers through New York's chaotic streets under circumstances that feel provisional and look like a mess, although taxis currently provide an essential New York experience, few would disagree that they should be more ergonomic for passengers and drivers, more environmentally sustainable, more accessible, even more elegant—in short, more expressive of what New Yorkers care about.

**THE DESIGN TRUST AND TAXIS**  
Recognizing the taxi's latent potential in late 2004, Paul Harris, Chair of the Cooper-Hewitt National Design Museum, wrote a short note to Andrea Woodson, Design Trust founder and at that time a co-executive director. In his view, as the icon of all things New York and the space of entry for millions of tourists every year, taxis should look and function much better. He wondered what the Design Trust consider a project about taxis?

**TAXI AREA A PUBLIC SPACE**  
The Design Trust would not have been the right organization to undertake a car design project. But taxis are more than just a car—collectively they form a system that includes passengers, drivers, fleet owners, garages that service and own taxis, and regulatory agencies like the New York City Tax and Limousine Commission and the Department of Transportation. That social, political, and economic system includes the streets and sidewalks that taxis and passengers rely on and that new New Yorker commuters with tax dollars.

This civic investment in taxi infrastructure, buttressed by laws that obligate taxis to service anyone who hails them, points to an important fact: taxis are an extension of New York City's public space. Just as F10 Avenue or Grand Central Terminal have a distinct public identity, enjoyed by anyone who has ever strolled past the Plaza Hotel or stood under the starry ceiling of the main hall, so too does the taxi. Like all great public spaces, New York taxis both serve the city and stand as an important part of its identity.

Once understood as a public space taxi, it became clear that no other New York City organization was better situated to take this on. The Design Trust method—to identify and engage all stakeholders at the start of a project—was ideally suited to address a complicated system like taxis. Since we will not negotiate a project without the collaboration of the city agency or community groups best able to implement any designs we develop, the first step was to engage New York's tax regulator, the New York City Tax & Limousine Commission (TLC).

**DESIGN TRUST FOR PUBLIC SPACE**

**THE TAXI 07 EXHIBIT**

**CARS AND INFRA-STRUCTURE**

...ORGANIZED BY THE DESIGN TRUST FOR PUBLIC SPACE, (THE TAXI 07 EXHIBIT) DEMONSTRATES WHAT THE FUTURE MAY HOLD FOR THE CITY'S BUMBLEBEE-COLORED TAXI FLEETS. TAXI 07 IS NOT A STATIC DISPLAY; THE VEHICLES ACTUALLY WORK, AND IN SOME CASES, MAKE RUNS THROUGH MIDTOWN.

**JERRY GARRETT**  
"A SOBER SPOKE MISS MODELS AT THE NEW YORK AUTO SHOW"  
THE NEW YORK TIMES, AUTOMOBILES  
APRIL 7, 2007

**VEHICLES**

**COMP-POWERED FORD CROWN VICTORIA**  
NEW YORK STATE ENERGY RESEARCH AND DEVELOPMENT AUTHORITY (NYSERDA) ♣  
A conventional Ford Crown Victoria's fuel efficiency is comparable to a Hummer H3 (2 mpg, 15 mpg for city driving). This taxi is actually fueled by Compressed Natural Gas (CNG)—a more sustainable alternative to conventional gasoline—and is a Super Ultra Low Emission Vehicle. Thanks to NYSEDA, NYSERDA runs the New York City Clean Fuel Tax Program, and pays dealerships \$8,000 for each natural gas taxi, and for use as a white mediation cab. Since 1998 the program has funded over 300 natural gas taxis, and has plans for 300 more in the next.

**KIA RONDO TAXI**  
KIA MOTORS AMERICA WITH LAMBERT DESIGN, ANTERIOR DESIGN, BIRDS, & BICK ♣  
The industrial design firm Smart Design led a team of several NYC-based design consultancies in a unique collaboration with Kia Motors America to produce this prototype. This partnership demonstrated that creating a smaller vehicle with a series of thoughtful innovations for both drivers and passengers yields a better experience for everyone. The new 2007 Kia Rondo crossover vehicle was an ideal platform for a taxi with its spacious interior cabin, versatile seating and cargo areas, strong safety features, and fresh, modern design. The Rondo occupies a smaller footprint than the Ford Crown Victoria and delivers better gas mileage (20-21 mpg compact to 17 mpg).

**DESIGN TRUST FOR PUBLIC SPACE**

**THE TAXI 07 EXHIBIT**

## TAXI INFRASTRUCTURE CONT.

### INTERACTIVE TAXI STAND

This "interactive taxi stand" designed by the architecture firm Weiss + Vespa, would be connected to a Global Positioning System (GPS), making it to wirelessly "hail" all cabs in the area. The design of this taxi stand is flexible and modular, allowing it to be configured based on available space.

The small version includes a single seat with embedded technology, the full version adds seating, a canopy, and a restroom. All configurations include digital wireless technology and an LCD touch screen that allow users to hail a cab, search maps for local information, and see maps of all taxis within a 1/4 mile radius, calculate fares, and more. Drivers would receive data transmitted from the stand, allowing them to find fares more efficiently.



### TAXI ZONE

INTERVIEW + BLOG

With their "taxi zone" design, Bittel + Sieck addressed the transition from pedestrian to passenger, and from sidewalk to street, by colorfully demarcating a section of roadway as a taxi loading and unloading zone. Requiring an elegant time in the city's past, the taxi zone lamp post signals to incoming taxi drivers that a passenger awaits pick-up. A cab-only area such as this would provide safer access for passengers and cut down on erratic driving by cabbies huddling for fares.

## WHO IS THE PASSENGER?

## EFFICIENCY AND TECHNOLOGY

There are more than 170 million New York City taxi trips each year, averaging nearly 470,000 trips each day. With an average of 1.4 passengers per trip, this represents around 240 million passengers each year, a number that has remained constant since 1995. While the current taxi system leaves some passengers (such as well-offers) have difficulty getting or using taxis, clearly, the taxi would be a purpose-built vehicle designed only to be a taxi, instead of a mass-produced general use car repurposed for use as a cab. Currently there are only 1.6 million taxicab accessible taxis on the road out of over 12,000—about 1% of all vehicles.

THESE ISSUES DON'T ONLY CONCERN DESIGN GEEKS, POLITICAL ACTIVISTS, URBAN PLANNERS AND NON-SUICIDAL CYCLISTS. SINCE MOST NEW YORKERS DON'T HAVE AUTOMOBILES OF THEIR OWN, DEBORAH MARTON (EXECUTIVE DIRECTOR, DESIGN TRUST FOR PUBLIC SPACE) OBSERVED, "THE TAXI IS BASICALLY OUR SHARED FAMILY CAR." MAYBE IT'S TIME FOR A SERIOUS UPGRADE.

LISA DELGADO  
"BUILDING THE FUTURE"  
THE ARCHITECT'S NEWSPAPER  
APRIL 16, 2007



About 40% of a driver's time on the road is spent driving around searching for a fare. New technologies and updated taxi stands could go a long way toward addressing this inefficiency, helping both passenger and driver. With the recent installation of Geographic Positioning Systems (GPS) in cabs, a call phone hailing system could be created to match passengers with drivers. If taxi stands were outfitted with GPS and wireless technology, waiting passengers could simply press a button to alert nearby drivers of their presence, better matching supply and demand and reducing emissions from cruising cabs.

A re-designed roof light could also improve efficiency and ease-of-use. The roof light—largely invisible in its current form—is the primary method of communication between drivers in their cars and passengers on the street. A new design could improve efficiency by addressing this communication barrier.



# AFTER THE EXHIBIT

The Design Trust's Taxi 07 Exhibit was a remarkable success in every respect: the high caliber of designers and manufacturers who contributed to the exhibit, the astounding number of exhibit visitors and overwhelming public interest, and the extensive press attention from all around the world.

## PUBLIC RESPONSE

THE TAXI 07 EXHIBIT ATTRACTED MORE THAN 100,000 PEOPLE OVER 12 DAYS, AT TIMES DRAWING AS MANY AS 1,400 PEOPLE IN JUST ONE HOUR. AS ONE OF THESE VISITORS TO THE EXHIBIT SAID, "IT IS FITTING THAT NYC BE THE LEADER IN THIS KIND OF CUTTING-EDGE, USER-FRIENDLY DESIGN," OF THE THOUSANDS OF VISITORS TO THE EXHIBIT...

...OVER 75% THOUGHT THAT "THE IDEAS WERE CREATIVE AND DO-ABLE"

...THE MAJORITY OF VISITORS FOUND THE EXHIBIT TO BE "INFORMATIVE" AND "INSPIRATIONAL"

...OVER 70% SAID THAT THEY "HAVE A BETTER UNDERSTANDING OF TAXI DRIVERS AND THEIR OCCUPATION AFTER SEEING THE EXHIBIT"



The Taxi 07 Exhibit catalyzed a sea change in the New York City taxi system. With the Mayor's announcement in May 2007 that all taxis must get 30 miles to the gallon by 2012, and TLC's "Taxi of Tomorrow" project working to design a New York City-specific taxi, the results of the Design Trust's Taxi 07 project will soon be seen on our streets.

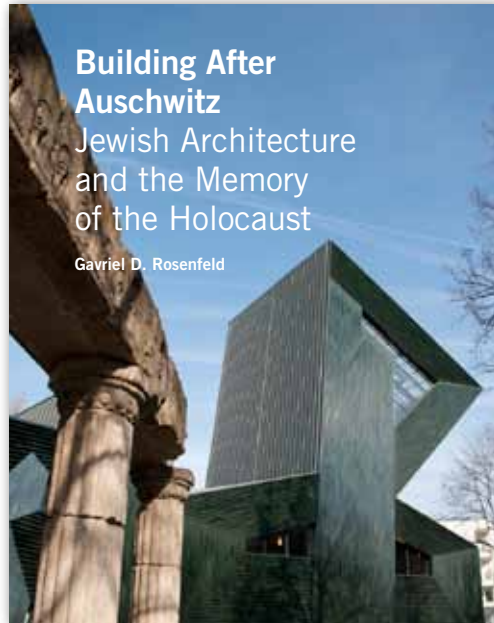
Further, new taxi logos that debuted at the Taxi 07 Exhibit can now be seen on all cabs, replacing the old dented and sticker method of communicating important taxi information to passengers.



Gov. Eliot Spitzer  
Commissioner  
Matthew Davis  
announcing the  
new taxi logo  
at the Taxi 07  
Exhibit, June  
2007.



Below: The new  
taxi logo as seen  
on the streets  
of Times Square  
in December  
2007.



# Building After Auschwitz Jewish Architecture and the Memory of the Holocaust

Gavriel D. Rosenfeld



Figure 4. The late thirteenth-century Altschul, or Old New Synagogue, in Prague is the oldest synagogue in continued use in Europe.

## Chapter 1 From the Wilderness to World War II A Brief History of Jewish Architecture

When I first visited Prague's medieval Altschul (Old New Synagogue) as a recent college graduate in May of 1990, the last thing on my mind was Jewish architecture. The turbulent events of the Velvet Revolution were foremost in my thoughts, and I was eager to soak up the politically charged atmosphere in the streets around Wenceslas Square. After chancing upon a massive outdoor political rally one afternoon and hearing an explanation of its significance from a local bystander, I became preoccupied with experiencing history as it was unfolding in the present and gave little thought to the city's past. Only at the end of my trip did I seek out Prague's old Jewish quarter. I was drawn there by its famous cemetery, with its thousands of tiling gravestones, not by the thirteenth-century Altschul, which I stumbled upon more or less by accident (fig. 4). I do not recall whether I noted the building's status as Europe's oldest functioning synagogue, but its historic atmosphere made an impression on me. Once inside the synagogue's subterranean sanctuary, I took note of its cool stone interior, wrought iron and wood bina, and flickering chandeliers dangling from the vaulted ceiling. Here was a building, I felt, that radiated an authentic sense of Jewishness.

It is hard to say what it was about the Altschul that epitomized its Jewish character to me. This difficulty partly reflects the fact that there is no such thing as Jewish architecture in a monolithic sense. The heterogeneity of three thousand years of Jewish history has made sure of this. Although Jews have built similar kinds of structures wherever they have lived—synagogues, schools, community centers, museums, private homes, and cemeteries—the diverse spatial and temporal circumstances of their erection have made them extraordinarily diverse in appearance. This is why when we think of the world's most famous Jewish structures—the Western Wall in Jerusalem, the Scuola Grande Tedesca in Venice, the Jewish Museum in Berlin—it is so difficult to say what makes them Jewish.

### Architectural Meaning and Jewishness in Architecture

The difficulty in determining the Jewishness of Jewish architecture is partly due to the difficulty in defining architectural meaning. Architectural historians have embraced multiple strategies for assessing meaning in architecture.<sup>1</sup> In this study, I follow the lead of William Whyte, whose holistic method of examining all aspects of a building's conception, creation, and reception convincingly demonstrates that architectural meaning is always in flux.<sup>2</sup> The initial factor shaping a building's meaning is its intended function, which is typically determined by the client's program. Also playing a crucial role is the architect's creative vision, which is expressed through building technologies,



Part One

# Jewish Architecture Before the Holocaust

though these buildings remained wedded to a historicist mentality, they were hailed at the time as representing hopeful signs for the creation of a Jewish architectural style.<sup>3</sup>

World War I interrupted this progress, but with the end of hostilities, architects and critics returned to discussing how a truly Jewish form of architecture might emerge. By this point, however, the terms of architectural discourse had radically shifted. In Europe and, to a lesser extent, the United States, historicism had come under attack by the new modernist movement, which rejected the architectural styles of the past in favor of new design principles rooted in modern materials and construction methods. This development convinced many Jewish architects that a truly Jewish style would be attainable only within the modernist movement. As the German Jewish art historian Karl Schwarz wrote in 1928, a strong chance existed that an artist would emerge from the ranks of Jews "active in the realm of modern architecture... whose Jewish blood would... lend his works a Jewish note." Jews differed on how to move beyond historicism in synagogue design, however, a fact that was illustrated by the disagreement in the 1920s between the half-Jewish American architectural historian and social critic Lewis Mumford and the Austrian Jewish art historian Max Eisler. Mumford hoped to transcend the era's "haphazard eclecticism" by embracing the dome, which he believed "would give the stamp of Judaism to a synagogue as plainly as the baroque gives the stamp of the Jesuit order to a church." By contrast, Eisler crusaded against the dome and instead recommended building in such a way that "the outer form of our Temples will... derive from the living architectural tradition of our place of residence." For him, that meant concentrating on the synagogue's interior space—which he called the "Jewish core of the matter"—and returning to the centralized plans of earlier synagogues, but from a modernist perspective.<sup>4</sup>

Neither Mumford nor Eisler's strategies carried the day during the interwar period. While some of the era's major synagogues reflected the vogue for the dome, such as Charles Green's Temple Tifereth Israel in Cleveland (1924) and A. M. Edelman's Wilshire Boulevard Temple in Los Angeles (1928), others were more in keeping with modernism, such as Dutch Jewish architect Harry Eke's De Stijl synagogue on Jacob Obrechtplein in Amsterdam-Zuid (1928), Fritz Landauer's cubic synagogue in Ploetz (1928), and Felix Auer and Robert Fricman's Oberstrasse Temple in Hamburg (1931) (figs. 12, 13).<sup>5</sup> These competing approaches symbolized the diverging status of interwar American and European Jewry. For Mumford, the domed synagogues of Cleveland and San Francisco symbolized American Jewry's security, prosperity, and stability—traits that stood in contrast to the Jewish situation in Europe, where "poverty and political repression... made the Jew keep his religious conceptions to himself and worship in buildings which were obviously secular... in character." Eisler, by contrast, believed that European Jewry's bleak postwar circumstances required a more modest modernist approach. In reviewing the Austrian architect Josef Hoffmann's design for a synagogue in Sillein, Slovakia, in 1926, Eisler was reminded of the biblical Tabernacle and observed: "Since we are in the midst of wandering, far from the old holy Jerusalem... the splendid [Mosaic] palaces are inappropriate. For the expelled and dispersed... a more appropriate form is the temporary structure like the tent [of meeting] which can be dismantled at any minute."<sup>6</sup>

In the end, neither Mumford's nor Eisler's positions prevailed, as the interwar period represented a missed opportunity for the emergence of modern Jewish synagogue architecture. In the United States, where the modernist movement was less developed than in Europe, few new ideas emerged



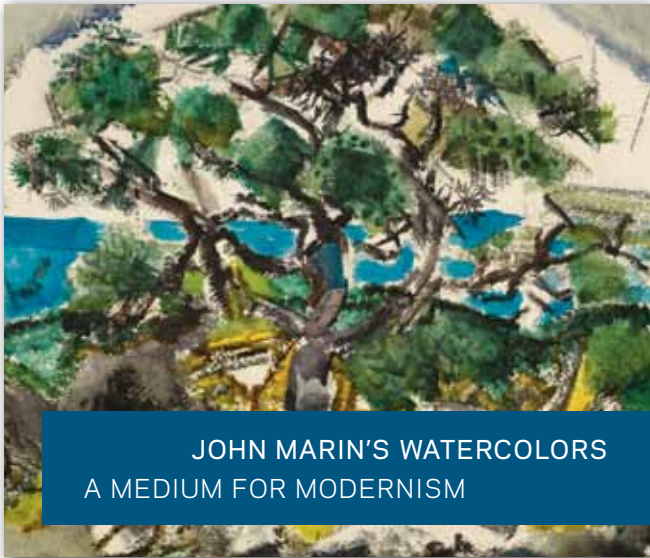
Figure 12. A. M. Edelman, Wilshire Boulevard Temple, Los Angeles, 1928. This building expressed the interwar era's embrace of domed synagogue designs.  
Figure 13. Fritz Landauer, synagogue, Ploetz, Germany, 1930. This building was a rare example of interwar modernist synagogue architecture influenced by the International Style.

in the area of synagogue design. Aside from an adventurous proposal in 1929 to build a synagogue atop the roof of a skyscraper in the financial district of Lower Manhattan, conservative historicist designs tended to hold sway.<sup>7</sup> By comparison, Europe was more advanced in generating progressive ideas but offered a less conducive climate for construction. Postwar economic difficulties, the inevitable fall-off in demand for new synagogues following the construction binge of the late nineteenth century, and the onset of the Great Depression after 1929 limited their number across the continent. By the time World War II erupted in 1939, the effort to create a modern synagogue style had come to a halt.

### Secular Jewish Architecture and the Rise of Jewish Architects

As with Jewish religious architecture, the origins of secular Jewish architecture also date to antiquity. Although the Hebrew Bible says little about the architectural activity of the Jews apart from the construction of the Tabernacle and the Temple, there is ample archaeological evidence that numerous secular structures—including royal palaces, fortresses, and tombs—were erected during the millennium of Jewish existence in the land of Israel after the sixth century BCE. These structures mostly reveal the influence of Egyptian, Phoenician, Hellenistic, and Roman architectural traditions, however, and show few signs of a distinctive Jewish style.<sup>8</sup> As Peter Richardson has concluded, "The distinctiveness of Jewish architecture [in this period] lay more in its... mixing [of] diverse influences than in anything inherent in Judaism's own architectural traditions."<sup>9</sup>

The influence of foreign traditions upon ancient Jewish architecture provides the oldest evidence supporting the notion of Jewish architectural underachievement. The idea that Jews registered few major accomplishments as architects is first implied in the Hebrew Bible, which portrays the first Jewish architect in history, Bezalel, as merely taking orders from God, who is the chief architect in charge of coordinating construction work on the first Jewish structure, the Tabernacle.<sup>10</sup> The



## JOHN MARIN'S WATERCOLORS A MEDIUM FOR MODERNISM



Martha Tedeschi

## JOHN MARIN'S LOADED BRUSH ORCHESTRATING THE MODERN AMERICAN WATERCOLOR

"Why is it one thinks almost inevitably of music before these Marins?"  
Herbert J. Seligman, 1922

John Marin was a talented amateur musician, a pianist with a flair for improvisation and a playing style all his own. Many of his closest friends shared his musical tastes, and they connected the native exuberance of his work as a painter with his keen appreciation for the elements of music. Writing to the aging artist (see opposite) in December 1922, the photographer Janet Adams explained, "You are one of the very few people I really enjoy playing for, because you hear the shapes and sounds and the messages and do not dwell on the musicalic mannerisms of the virtuoso." Marin himself seems often to have thought of art in parallel to music. In a letter to the collectors Marjorie and Duncan Phillips, for example, he ruminated, "A consummate awareness of color weights—of balance—of rhythm. Not that you have painted a violin but that you have . . . music abound. Yes! I would have it that the painter who has not music—is not for me. Who has not the rhythmic flow as had Bach is not for me." The artist's fluid and emotive art was frequently likened to music as one thoughtful critic mused, "Schopenhauer might have been thinking of Marin when, defining music, he wrote that the creative musician reveals the innermost meaning of the world, and expresses the highest wisdom in a language his reason does not understand."<sup>1</sup>

Marin's friends and contemporaries were often tempted to compare the sensations evoked by his watercolors to the experience of listening to music.<sup>2</sup>

They perceived that his juxtapositions of strong color could evoke sound, his forceful, idiosyncratic mark making likewise conjuring the movement and weight of natural forces. In his review of the landmark exhibition of American watercolors mounted by the Brooklyn Museum in 1922, photographer Paul Strand observed, "Marin has added to . . . a medium of singing violins and wood winds, the fanfare of brasses and drums, the sharpness of flutes and the deeper tonalities of the lower strings." Reviewing the same exhibition, Herbert Seligman likened the "constant and sustained movement" of a Marin watercolor to "a fugue of Bach, a symphony of Beethoven," adding, "Marin has a polyphony no less than theirs." A few years later, describing the artist as "later Beethoven," Henry McBride wrote, "The real thing, the deep thing that makes Marin's emotion eloquent, is a thing that never can be described. It is there, however, for those with power to feel!" The following year, a Chicago art critic went so far as to assert, "There are two salient elements which combine to make the art of John Marin: the one is color, and the other is music."<sup>3</sup> Linking the potency of the artist's watercolor technique to the raw vitality of Walt Whitman's poetic style, he explained at length the connection to music: "Marin's brush is applied as a child's and yet there is 'method in his madness' . . . out of chaos he constructs form. . . . It is the Stravinsky of modern color, adding to the ringing strings the metallic timbre of the wood-winds, the clangor of the drums and

Figure 25  
Janet C. Adams (John Marin)  
Painting, 1922. This orange  
inked letterhead from the  
Marin family is pasted  
with blue ink on the paper  
with blue ink on the paper  
and hanging paint from the tubes.

Figure 26  
Detail of *View of Flatiron  
Building*, 1910. Marlin  
used white pigment to  
define the building's  
structure. The image  
of the sky is painted in  
blue pigment, creating a  
dark, feathered line.

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### PREPARING TO PAINT

Watercolor papers must be dampened, stretched, and mounted to a stiff surface before painting in order to prevent them from warping when washes are applied. Evidence on Marin's sheets indicates that he followed such practices. In one early example, *Spring (Oberlinhof)* (pl. 21), he mounted the paper by wrapping the edges over the back of a board and gluing them into place. To release the finished sheet, he ran a knife under the edges to separate them from the board. As a result, the sheet bears a severe crease along each edge, which collected dirt over time and now appears as a gray line.<sup>4</sup> Many early works have a band of adhesive along the edges of the verso, where the artist glued the damp paper directly to a rigid board; others have small dots of yellow adhesive at each corner of the verso, indicating a less cumbersome method of attachment. Marin also planned his papers to boards directly, as evidenced by tack holes at corners and along edges; these are often surrounded by untouched circles of paper that show where the tacks protected the sheet during painting. Tack holes found in the majority of works dated after 1915 indicate that gluing became the artist's preferred mounting method once he began using the old Whatman paper. Its greater thickness and heavier sizing made it less prone to distortion, and it did not require dampening or stretching.<sup>5</sup> At other moments, however, Marin simply used one hand to hold a loose sheet against a board while he painted with the other, as seen in a photograph of the artist working late in life (fig. 25).

### WATERCOLOR AND TECHNIQUE

It is unclear what, if any, formal instruction Marin received in watercolor.<sup>6</sup> His deliberate choice to work primarily in the medium points to his independent nature and suggests both his preference for unrestricted experimentation and his willingness to embrace unpredictable outcomes. Those liberating qualities are reflected in the way that he chose to manipulate paint on paper. Marin's writings and his surviving art-supply catalogs indicate that he painted with Winsor and Newton watercolors, which he perhaps supplemented with other manufacturers' products.<sup>7</sup> Written evidence, documentary photographs, and the paintings themselves reveal that the artist used tube watercolors; it is unclear if he also employed cakes.<sup>8</sup> The former are moister than the latter and can therefore be diluted and mixed more quickly; they may also be used straight from the container to produce a more opaque effect. An image of Marin at work (fig. 25) shows a box filled with tube watercolor sets

to a hinged palette with six large rectangular depressions for mixing quantities of wash and eighteen small circular depressions (one on each side) for squirting watercolor out of the tube and mixing it with small amounts of water. The palette does not include an area for watercolor cakes.<sup>9</sup>

The artist's earliest extant watercolors date from 1888. The works are primarily landscapes, which he painted by saturating the paper with water before applying brush and color. With this method, color wicks into the wet sheet and spreads outward, leaving soft strikes with blurred, feathered edges. In his catalogue raisonné of Marin's oil and watercolor paintings, Sheldon Reich described the brushwork in these early compositions as "suggesting rather than delineating form" and emphasizing "transitory effects of light and atmosphere in nature."<sup>10</sup> Marin executed the earliest three pieces in the Art Institute's collection—*A Rolling Sky, Paris, After Storm* (pl. 20), *Mills and Footbridge, Meaux* (pl. 19), and *Spring (Oberlinhof)* (pl. 21)—in 1900 and



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near the end of his five-year stay in Europe. There he displayed a range of techniques and a solid command of his materials—not surprising, given the fact that he had worked in the medium for twenty years. Nevertheless, the materials and methods he used at this time indicate that he was still primarily seeking to emulate traditional modes of watercolor painting. The works are rendered entirely in transparent washes, and the artist made his initial pencil sketches extremely faint so that the lines would not show through his translucent colors. He employed loose brushwork, dilute, merging washes, and occasional reworking and blotting to lighten and soften brushstrokes. He also continued to wet out portions of the paper before applying watercolor. These techniques minimize hard contours and soften boundaries between forms, thus emphasizing effects of light, air, and weather rather than detailed description.

Yet these works show Marin beginning to deviate from convention in a limited way. The artist did not apply a fat wash—a broad, even passage of color traditionally emphasized as the proper method for painting skies and distant landscape. Instead, he painted the sky up to and around the buildings and landscape features, possibly an indication of some degree of self-instruction. Perhaps not coincidentally, Marin painted most freely in the sky. In *Mills and Footbridge, Meaux*, he began with long, dry, blue strokes. Then he defined the clouds, working wet-into-wet by dripping in dilute washes of blues, pinks, reds, and yellows that dispersed the pigment and yielded dark, feathered lines (see fig. 26). After the washes dried, he punctuated the remaining white of the sky with yellow marks for brightness. This approach demonstrates a strong understanding of how watercolor behaves combined with a willingness to experiment with unpredictable results. Marin recalled that he found such manipulations liberating: "In the water colors I had been making, even before Steiglitz first saw my work, I had already begun to let go in complete freedom."<sup>11</sup>

It has been noted that Marin did not break from academic practice—that is, the use of traditional compositional design and perspective—until 1910, when he returned to New York and became closer to Steiglitz and the art exhibited at his gallery.<sup>12</sup> The artist's shift toward a nontraditional style of representation was connected with his exploration of new ways to handle watercolor. Indeed, the works he created in and around New York from 1910 to 1922 demonstrate a tremendous range of painting methods that was clearly motivated by his search for a new visual language to communicate his emotional reactions to the intensely vibrant city. A close look at works



**John Figure 27**  
Detail of New York with Bush in  
the Foreground (fig. 27) that  
discovers the view in which  
Marin, using his paper weight,  
disappears into the blue wash  
to join the rest of the street scene.

**John Figure 28**  
Detail of Street Scene (fig. 28),  
showing the use of granulation.  
Marin employed a heavy blue  
pigment that settles in the low  
points of the paper's surface.  
In the high points, a more  
transparent pigment is used.



blue wash at upper left, removing just enough color from the high points to accentuate the grainy pattern left behind (see fig. 28). In other works such as *Skyline with Boat* (fig. 29), he floated one wet hue into another, allowing soft, feathered patterns to emerge as the colored strokes collided and dispersed (see fig. 30).

While fluidly engaged in Marin's sketches, he was beginning to develop short, quick brushwork to capture the activity at street level. The early New York paintings are littered with improvisational marks. In *Street Scene*, for example, he transformed two blue dabs at lower left into figures by drawing in heads and shoulders with his pencil (see fig. 30). He abstracted the bustle of the sidewalk in *Building* (pl. 28) by flicking his brush across the foreground, using strokes of blue, purple, and yellow to suggest life and traffic (see fig. 31).

**John Figure 29**  
Detail of *Street Scene* (fig. 29) shows the artist painting the sky by floating one wet color into another, allowing soft, feathered patterns to emerge as the colors collided.



In *West Street, New York* (pl. 30), meanwhile, he improvised with his fingers, touching in dots of black, blue, red, and yellow over a foreground scene rendered in sketchy graphite and purple wash. These small, expressive dots bear the edges of his fingertips (see fig. 31) and appear as partial, repeated marks that at some times suggest movement and at others operate more as punctuation marks or staccato musical notes, accenting the scene and contrasting with the more rigorously rendered buildings.

Soon the artist began using expressive and improvisational brushwork across all zones of his compositions as he described it, "buildings—streets—people—become a solid mass of moving abstractions." This approach

**John Figure 30**  
Detail of *Street Scene* (fig. 30), showing the use of granulation. The figure is a gray construction of small brushstrokes. Like other elements, the figure's color can be seen in the wash.

**John Figure 31**  
Detail of *Building* (pl. 28) that shows how the artist flicked his brush over the street, abstracting the activity of a New York street into a collection of short colored dashes.



**John Figure 40**  
Photomontage detail of *The Red Sun* (Booker's Bridge) (pl. 52), showing the use of granulation. The figure is a gray construction of small brushstrokes. Like other elements, the figure's color can be seen in the wash.

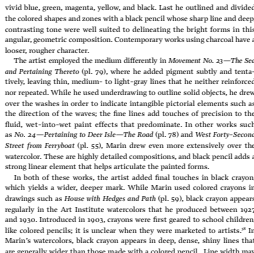
**John Figure 41**  
Photomontage detail of *Mountain Forms* (New Mexico) (pl. 53), showing the use of granulation. The figure is a gray construction of small brushstrokes. Like other elements, the figure's color can be seen in the wash.



**John Figure 42**  
Photomontage detail of *Mountain Forms* (New Mexico) (pl. 53), showing the use of granulation. The figure is a gray construction of small brushstrokes. Like other elements, the figure's color can be seen in the wash.



**John Figure 43**  
Photomontage detail of *Mountain Forms* (New Mexico) (pl. 53), showing the use of granulation. The figure is a gray construction of small brushstrokes. Like other elements, the figure's color can be seen in the wash.



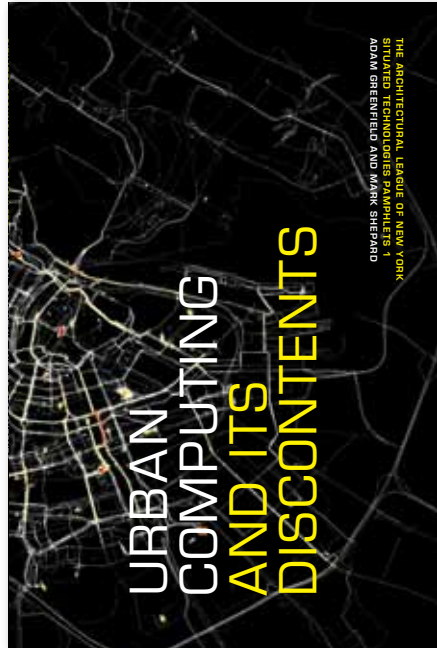
in both of these works, the artist added final touches in black crayon, which yields a waker, deeper mark. While Marin used colored crayons in drawings such as *Home with Hodges and Puth* (pl. 50), black crayon appears regularly in the Art Institute watercolors that he produced between 1927 and 1930. Introduced in 1903, crayons were first geared to school children, like colored pencils; it is unclear when they were marketed to artists.<sup>14</sup> In Marin's watercolors, black crayon appears in deep, dense, shiny lines that are generally wider than those made with a colored pencil. Line width may vary depending upon how sharp the crayon was and the amount of pressure the artist used (see fig. 43). In two works of 1930, *Valley of the Highlands*, *New*



*Mexico*, and *Mountain Forms, New Mexico*, Marin used black crayon as the only drawing medium. Bound with wax, it does not smear or smudge like charcoal and is impervious to water: when a colored wash is applied over crayon, it remains unaffected. It was for this reason that the artist likely chose crayon for these particular pictures, as it allowed him to best describe the clarity and color of the southwestern landscape. In both cases, he used it to lay in the preliminary designs, pressing more heavily to achieve dense, rich black lines and using a lighter touch for feathery lines that seep over the textured paper. As a final gesture, he made a few additions to emphasize the boundaries between colored passages.

Crayon plays an even more prominent role in the 1930 *Madre Ina* (pl. 53). Over a light crayon sketch, Marin built the composition in successive campaigns of wash and black crayon, so that heavy lines appear both under and atop the watercolor. When painted over, these took on a muted aspect, with their surface appearing matte and more gray, almost the natural charcoal. The artist also used black crayon to define the figures in a broken contour line, underlining each seated made with a heavy, shiny black line to segregate them from the ground. The effect is to anchor the bodies, emphasizing where they meet the rocks. While we can say with certainty that Marin continued to use black crayons (as he did colored pencils) into the 1930s and 1940s, the Art Institute's collection holds fewer works from those decades, making his pattern of media use difficult to assess more precisely.

Late in his career, Marin had mastered the use of multiple drawing media and their intersections with watercolor, and was able to combine them with remarkable results. In the 1933 work *Approaching Fog* (pl. 42), he sensitively incorporated vibrant charcoal, graphite, black ink, and opaque black watercolor in order to achieve a sense of contrast and texture within one total range. He created his black marks in a wide variety of ways. While he used graphite for the underdrawing, he manipulated charcoal to produce the re-aggregated, diffuse lines at lower left (see fig. 43a). Here he drew through very wet wash and then tamped the line with a wet stump or similar tool; the suspended particles fanned outward, settling on either side. The artist also brushed on opaque black watercolor to render the matte passages in the foreground rocks, blurring their edges and softening their forms in a way that echoed the character of the hazy charcoal marks. Finally, using a brush or possibly a syringe, Marin wove a filigree of shiny, delicate ink lines across the foreground, giving form, surface contour, and weight to the foggy sea



THE ARCHITECTURAL LEAGUE OF NEW YORK  
SITUATED TECHNOLOGIES PAMPHLETS 1  
ADAM GREENFIELD AND MARK SHEPARD

# URBAN COMPUTING AND ITS DISCONTENTS

Given these questions, what do you think architects need to know about urban computing? Conversely, what do technologists need to know about cities?

**AG** I think that, in one or two important senses, architects are actually further along in imagining what cities look and feel like under the condition of ambient informatics than technologists are. From where I sit, the technologist's traditional concerns frequently seem stuck at what I think of as the super-home-theater level, at the level of "well, your house is going to talk to the car through your phone, so your windshield will notify you when you've had a package delivered at home."

OK, woo-hoo, right? It's just this 360-degree-surround of digitally-enhanced lifestyle consumerism, a narrative of effortless ease and convenience and security. Whereas architecture has at least had time to develop a sideband, a critical discourse to accompany the boosterism, and there's certainly as well a time-honored tradition of rendering the imaginary out ahead of its technical deployability, whether we're talking about Sant'Elia, Mies on the Friedrichstrasse, Archigram, or the Metabolists.

So let's consider what architects have thus far made of buildings as networked objects, before ramping up to the scale of cities, because there are some relevant clues to be found there. I think of Peter Testa's Carbon Tower project [1] in this light, which I've previously called out as a great example of the new architectural morphologies that become possible when computation is everywhere in the structure itself!

In Testa's design, the Carbon Tower is an all-composite, forty-story high-rise, knit, braided, and woven from carbon fiber, that dispenses with all internal bracing. And it's able to do so not merely because of the mechanical properties of its textile exoskeleton but because of the way that exoskeleton is managed digitally. Testa calls this "active lateral bracing": sensors and actuators embedded in the building's structural fiber cinch the outer skin in response to wind load and other dynamic forces. You can't have the building at all without the ability to receive, process, and act upon information.



11 Carbon Tower (2007-2011), Unbuilt/Partial Model  
Courtesy of Testa & Swaine, Inc., Los Angeles

The whole transaction sounds banal, but that's just the point: it is banal, already, despite the fact that it would have been impossible as recently as two or three years ago. And the transaction's very banality camouflages the elaborate informational choreography involved in its success, to say nothing of the dense infrastructure of servers and routers and transmission towers that in turn supports that.

Can you have urban computing that is not ambient? Sure—but I'd argue that it's a transitional mode. Take a look, for example, at Staten Design's Oakland Crimespotting. [1] This is a nifty hack that imports Oakland Police Department crime data into a Google Maps mash-up, and does so not willy-nilly but with a fairly high degree of aesthetic polish.



1 Oakland Crimespotting  
Screenshot Courtesy of Staten Design

The importance of Oakland Crimespotting is that it makes transparent something that absolutely shapes both the affective experience of being in the city and the choices we make there—the actuality of street crime—plotting reported incidents on a map and returning that knowledge to you. But it must be said that its impact is somewhat limited by the fact of its output being limited to a PC, or at best a smartphone, screen.

Why? Because geographically-organized data like this cries out for a direct mapping back to the locations in question. How much more powerful and actionable will things like Crimespotting be when they're ambient—when the information about a place comes to you when you're in that place? When, instead of shaded circles on a screen, you experience the output as a rising tone in your headphones, as a tickle in your shoe or a sudden wash of yellow over the view through your glasses, as you're actually walking through the streets of Oakland?

"Read/write urbanism" is, frankly, jargon, but it's a pretty neat piece of jargon. It's Kevin's way of describing what is novel about urban life under the condition of ambient informatics, the idea that the city's users are no longer bound to experience passively the territory through which they move but have been empowered to inscribe their subjectivities in the city itself...that those subjectivities can be anchored in place and responded to by those who come after.

So your passage through, your use of, or your investment in this place leaves a tangible informational trace, which can either be gathered up and acted upon individually in the aggregate—as in Esther Polak and Jeroen Kee's early Amsterdam Realtime [2] and the wide variety of GPS mapping projects which followed it, to cite just one tendency. And again, I think this is just how we're going to experience metropolitan life moving forward.

**MS** Let's bookmark this idea of "read/write urbanism" and come back to it later. First, I'd like to dig a bit deeper into some of the implications of "reading" ambient informatics in cities. Many of the examples you cite have been referred to by others as "locative media"—a form of media art that deploys mobile technologies in mapping bits of media and information to a particular place or location. These projects share a common interest in altering how we locate and orient ourselves within cities, and subsequently navigate through them.

Traditionally, architecture and urban design have served to provide the cues by which this occurs. Kevin Lynch's *The Image of the City*, a common reference for many locative media theorists and practitioners, attempted to distill a syntax through which a mental map of the city is formed over time through habitual interactions with things like paths, districts, edges, landmarks, and nodes. What I find interesting about ambient informatics is that it suggests a shift from material/tangible cues (streets, squares, rivers, monuments, transportation hubs) to immaterial/ambient ones through which we form our mental maps.

Now, location-based services like Google Maps on a mobile phone may be great for finding a restaurant nearby, but they operate on the

10 Pedestrian in a network of activity  
Courtesy of David Schick

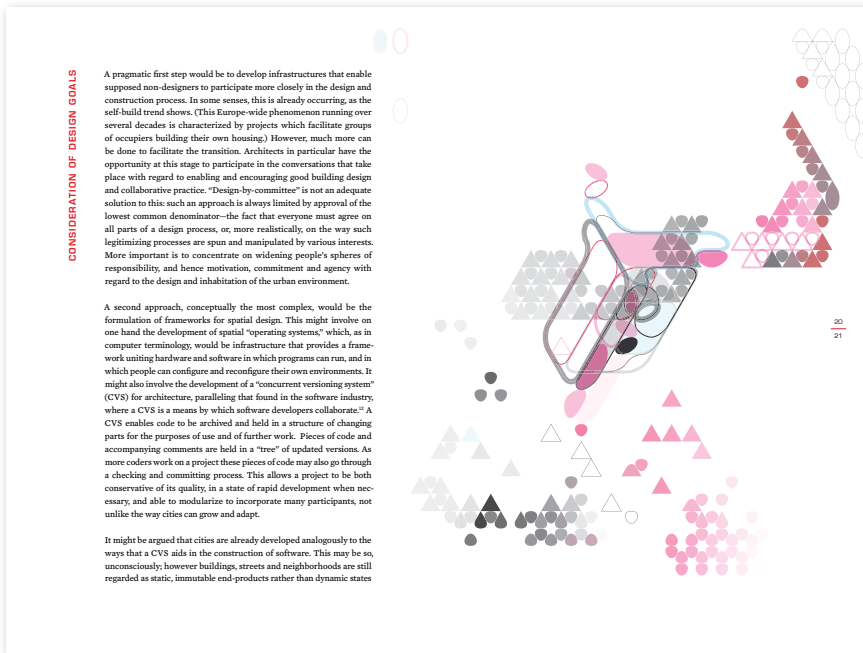
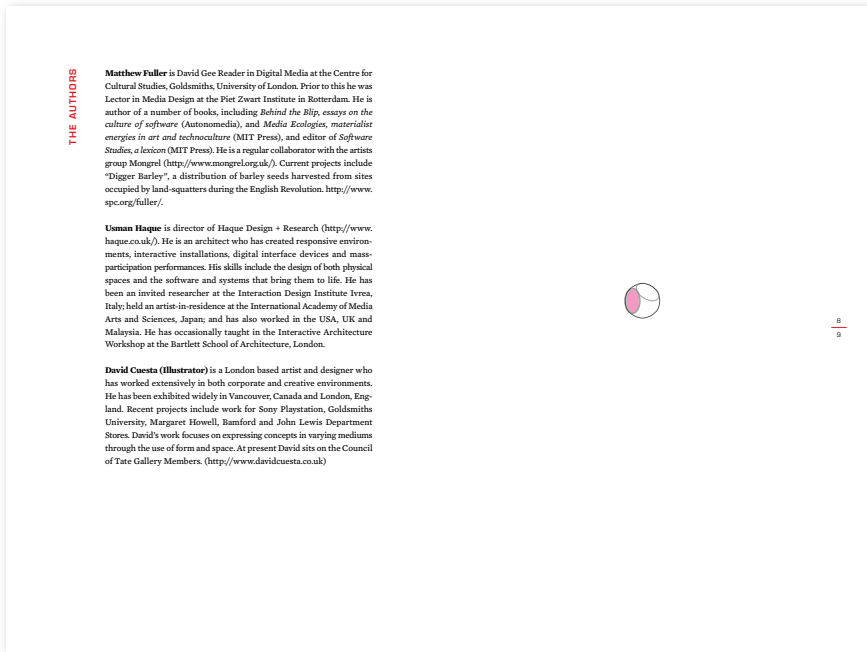


This is the drunken-seeming meander of a woman speaking on a mobile phone. I think we all recognize this behavior. I do it myself. It's a dead giveaway that the person is immersed in a condition of, at best, ambivalent adjacency. You can't tell me that the woman in this photo is responding to the spatial circumstances around her, except as boundary constraints of the crudest order. She's surely making space, but her choices in doing so are guided by other logics than those that have governed urban form throughout history, the conditions that undergird our understanding of walls, doors, thoroughfares, intersections, and such. To me, if anything can rightly be called "schizo-geography," it's this.

The mobile phone is just the beginning. This goes back to your earlier question about information that reflects the larger patterns of activity

in the city, when you can readily visualize basins of attraction and repulsion overlaid onto the actual—economic attractors, crime hotspots, conditions of enhanced or disrupted pedestrian flow. I think we can see that these are things which will increasingly become—be made—explicit, and they'll be the aspects that drive large-scale choice. Not just on the basis of proximity, but of preference... of propinquity.

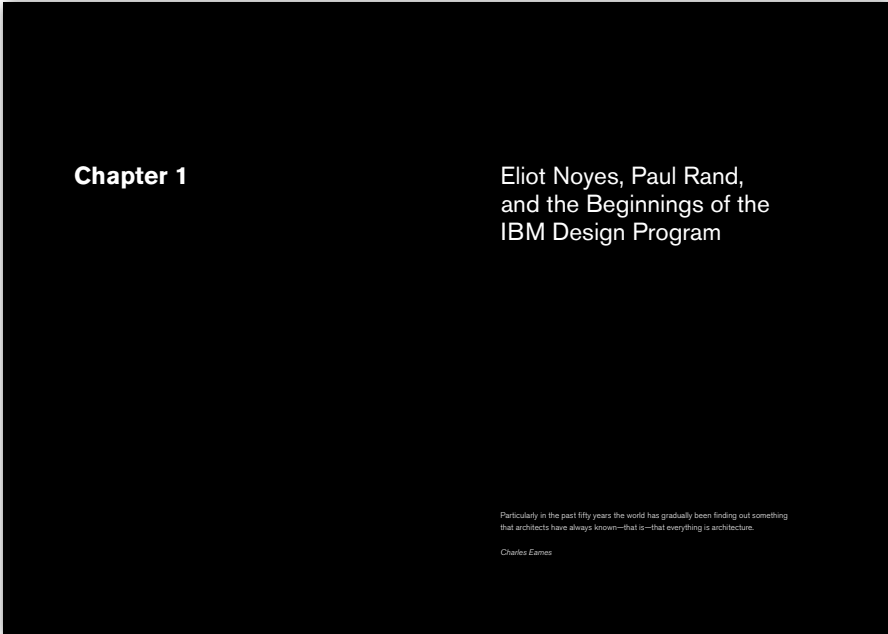
And there's no way I can see that not coming into conflict with what architecture has always held to be its sovereign imperative, that of authoring space. I'm not going to go as depressingly far as, say, Marin Pawley, in his *Terminal Architecture*—where he rather gleefully posits a world of utterly atomized individuals humping around a blasted and unloved landscape in the networked life-support pods of their aptly-named "terminals" but I do think formal beauty, certainly, and even





# The Interface IBM and the Transformation of Corporate Design 1945-1976

John Harwood



## Chapter 1

### Eliot Noyes, Paul Rand, and the Beginnings of the IBM Design Program

Particularly in the past fifty years the world has gradually been finding out something that architects have always known—that is—that everything is architecture.

Charles Eames

**Eliot Noyes and "Organic Design," 1940**

Noyes was the beneficiary of Gropius's newfound influence upon the American scene when he was appointed as the first curator of Industrial Design at MoMA in 1940.<sup>14</sup> It was in this position that Noyes made his first important efforts at articulating the design of the liminal space between human beings and machines. Just as importantly, it was also his first opportunity to collaborate with two designers, Eero Saarinen and Charles Eames, and with the design editor of *New Directions*, the architectural critic and patron Edgar Kaufmann Jr., all of whom would become life-long friends and allies in a joint effort to redefine corporations through design over the ensuing three decades. Noyes's first exhibition, the now-famous competition *Organic Design in Home Furnishings*, of the following year (Figure 1.2),<sup>15</sup> fittingly served as his point of entry into, and a kind of prospectus for, the remainder of his career in architecture and industrial design. On the inside cover of the intensely polemical catalog documenting the results of the exhibition, Noyes set the terms of the competition with his definition of "organic design" by drawing an explicit connection between the quality of being "organic" and the "harmonious organization" of disparate parts in space.

A design may be called organic when there is an harmonious organization of the parts within the whole, according to structure, material, and purpose. Within this definition there can be no vain ornamentation or superfluity, but the part of beauty is none the less great—in ideal choice of material, in visual refinement, and in the rational elegance of things intended for use.<sup>16</sup>

This last statement is telling, since the competition was as much a business deal as a museum exhibit: following Kaufmann's plan for *Organic Design* and the annual exhibitions in a similar vein that would—Kaufmann hoped—follow, each of the winning designers was awarded a production deal with a large-scale manufacturer and a distribution contract with a major American department store.<sup>17</sup> However, the concluding phrase—"rational elegance of things intended for use"—also carries within it an implied dynamic relationship between the industrially produced object and its subject (the user). The "purpose" of the objects exhibited in *Organic Design* was not simply to be sold, but also to integrate themselves into a productive whole, a domestic space that includes in it furniture and the human beings who use that furniture. As John Hay Whitney put it at a luncheon in June 1941 honoring the winners of the competition,

There was a time in our Puritan background when to want to be comfortable, to care about, even to know about, the beauty of one's surroundings was considered soft if not sinful, but today's sociologists, psychologists, and those engaged in the physical as well as the social sciences agree that efficiency and happiness result from an environment which is both comfortable and beautiful.<sup>18</sup>

Noyes, as a product of this self-same Puritan ethic, sought to redefine comfort on a scientific basis—it was not indulgence, but necessity. Thus Noyes stressed in *Organic*

20 Beginnings of the IBM Design Program

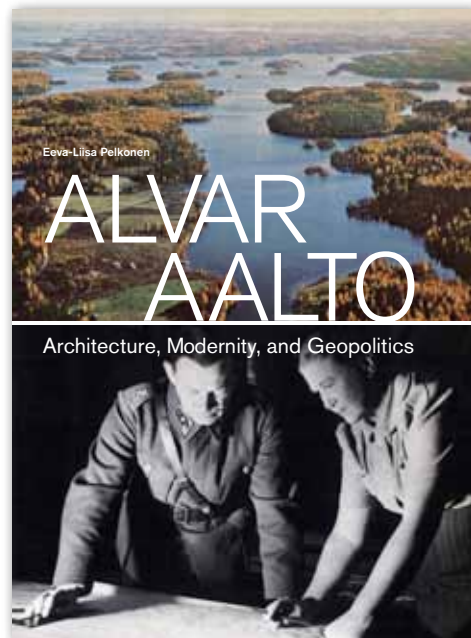
100 studies of each element. At the end of the hundred studies we tried to get the solution for that element that suited the thing best, and then set that up as a standard below which we could not fall in the final scheme. Then we proceeded to break down all logical combinations of these elements, trying not to exclude the quality that we had gained in the best of the hundred single elements; and then we broke those elements and began to search for the logical combinations of combinations, and several of such stages before we even began to consider a plan...

It went on, it was sort of a brutal thing, and at the end of this period... we were in the second stage. Now you have to start but what do you do? We reorganized all elements. But this time, with a little more experience, chose the elements in a different way (we had about 26, 28, or 30) and proceeded; we made 100 studies of every element; we took every logical group of elements and studied these together... and we went right on down the procedure. And at the end of that time, before the 2nd competition drawings went in, we really kept it looked so idiosyncrasy simple we thought we'd sort of blown the whole bit. And won the competition. This is the secret and you can apply it!<sup>19</sup>

The production of an organically designed object is thus a fundamentally systematic or methodical process of reduction and simplification. That is, it is a design "logic," in which "elements" are combined in an experimental fashion in an effort to arrive at a solution that satisfies a series of predetermined conditions (the program): comfort, appearance, ease of manufacture, etc. The process is akin to the mathematical technique of solving a problem through brute force (thus Eames's description of it as "brutal"), that is, through iterative repetition and recombination. Each successive combination of elements must be tested against the a priori conditions and rejected until the only possible outcomes remain. The apparent simplicity of the result—the ergonomically sound, or biomorphic, "Conversation" chair—is revealed through Eames's explication of his and Saarinen's "a-ones" logic to be in fact only one possible, though ostensibly the most correct, outcome of an exponentially more complex process. After all, as Eames wrote in 1958, furniture was really "architecture in miniature... a human-scale proving ground for directions in which [architecture] have faith."<sup>20</sup> This faith, of course, was faith in a utilitarian tautology roundly critiqued in the same year as Eames's theorization of "architecture in miniature" by the philosopher Hannah Arendt as a "chain whose very end can serve again as a means in some other context." Paraphrasing Lessing, she asked: "And what is the use of user?"<sup>21</sup>

In the two years following the opening of the exhibition, Noyes worked tirelessly alongside Eames, Saarinen, and the other winning designers to arrange for the efficient mass-production of organic furniture.<sup>22</sup> While the labor cemented their relationship and provided them all with their most extensive training to date in the exigencies of mass-produced industrial design, their project was eventually brought to a close by the entry of the United States into World War II. Only a small fraction of the exhibited furniture ever made it to mass production. Saarinen and Eames amicably ended their formal partnership, as Saarinen left Cranbrook to take up a position as chief of the Special Exhibits

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Introduction Geography of (Aalto's) Architecture

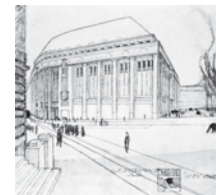
In this book I explore the geographic narratives and their geopolitical subtexts generated by the Finnish architect Alvar Aalto and his mentors over a fifty-year period, from the early years of Finnish independence to the end of the Cold War. In so doing I ask broader questions: How central is Finland—its history and its politics—to understanding Aalto's architecture, and how do we make sense of geography as a dominant theme in the history of modern architecture in general? Perhaps more than any other modern architect, Alvar Aalto's work and persona have been linked to and explained by his country of origin, Finland. An aerial view of a Finnish lake juxtaposed with an image of Savoy vases (1937) and a plan of the Finnish Pavilion at the 1939-40 New York World's Fair, which appear in Sigfried Giedion's influential *Space, Time and Architecture*, offer a shorthand argument: they suggest that the essence of Finland flows, as if naturally, into Aalto's architectural forms (fig. 3). Although the geography of Aalto's architecture has gained new readings, the idea of Aalto being a quintessentially Finnish architect still dominates.<sup>1</sup>

Giedion's ambiguous statement "Finland is with Aalto wherever he goes" implies, however, that both the architect's and the author's allusions to Finnish nature developed along with Aalto's engagement with the world at large.<sup>2</sup> In his seminal *Sources of Modern Eclecticism: Studies on Alvar Aalto* (1982), Demetri Porphyrios points out that Aalto used formal and metaphorical tropes alluding to Finnish nature and building tradition to construct ambiguous cultural and political meanings. I agree with these authors that Aalto's work and actions had a political dimension.

I started my own inquiry with a few simple questions: What did Aalto himself say about Finland and the geographic dimension of his architecture? What did he think or say about national, or for that matter, international architecture? I discovered that while Aalto certainly was not a typical Finnish architect, he was throughout his life and career preoccupied with Finland's cultural, political, and economic future, believing that his words and works could help shape the country's destiny. Finland and Finnish culture were major themes of Aalto's writings throughout his career. His books and articles include "Finnish Homes" (1922), "Landscape in Central Finland" (1926), "Letter from Finland" (1931), "Finland" (1940), "Post-War Reconstruction: Rehousing Research in Finland" (1940), "Finland as a Model for World Development" (1949), and "Finland Wonderland" (1950). The articles "Minimum Dwelling—a Social and Economic Kilde" (1927), "Contemporary Architecture: An Interview with Alvar Aalto" (1929), and "The Housing System in the USSR" (1932) respond in various ways to international modernism. Other articles attempt to map a relationship between international architecture and society and their Finnish counterparts. These include "Finland and Scandinavia" (1933) and "An American Town in Finland" (1940). The word "geography" appears in the title of one of the key texts dealing with the relationship between architecture and geography: "The Geography of the Housing Question" (1933). It is my hope that a close reading of these and other texts will

Nietzsche's idea of dynamically evolving transpersonal and transnational identity was in sharp contrast with the notion of insular nationalist thinking. According to Nietzsche, national identities, like individual identities, evolved with time. The world was a vast, constantly unfolding ecology rather than a static, closed system. A nation had to be open to transnational exchange, just as an individual had to be open to transpersonal exchange. Nietzsche considered nationhood something made, rather than something born or innate, and a national soul as a dynamic "social structure of the drives and affects."<sup>3</sup> A German soul, for example, was "manifold, of diverse origins, more put together and superimposed than actually built."<sup>4</sup> Transnationalism occurred as a consequence of the mutability of this fluid, dynamic spirit. In fact, there was no such thing as innate national culture to start with.

The first expression of this new type of metropolitan architecture started to appear in Finland the year Aalto entered architecture school, when Frosterius, now working on his own, won the competition for the Stockmann Department Store (1918–20). The building was reminiscent of Alfred Messel's Wertheim Department Store (1896–97) in Berlin, marking the point that the new international architecture was a product of the vibrant new metropolitan lifestyle. The perspective drawing for it depicted a building with a strong vertical articulation of alternating columns and windows and a slightly curving roofline, somewhat in the style of van de Velde, which added to its dynamism (fig. 43). Although Helsinki was still a far cry from a continental metropolis, the trammes on the street signified a new and dynamic world order, brought about through technology and com-

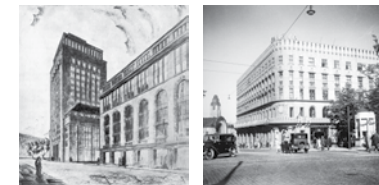


43. Sigurd Frosterius, City 1920, competition entry for the Stockmann Department Store, 1916, reproduced in Arkkinen & (1946), *Museum of Finnish Architecture*, Helsinki.

New Geographies

merce.<sup>5</sup> The building occupied a whole block at one of the busiest intersections in Helsinki, between Aleksanterinkatu, Esplanadi, Keskuskatu, and Heikinkatu (now Mannerheimintie). The unornamented columns suggested what was inside: a six-story-high sky-high atrium, surrounded by open sales floors; the effect was of a temple of capitalism. Like van de Velde's, Frosterius' approach to structural expression was more expressive than literal: the focus was on the dynamism of the lines created by structural members and other architectural elements. The overall effect was dominated by the staircase of reaching pilasters and the rhythmic vertical calibration of bricks and window frames. Just a few years later, Frosterius would be dreaming of skyscrapers in downtown Helsinki (fig. 46).

Even the work of Armas Lindgren, Aalto's teacher at the Polytechnic and a former partner in Gesellius-Lindgren-Saarinen, had by the late 1910s moved from National Romanticism toward a more dynamic visual and structural expression, the trademark of metropolitan architecture. The break is evident in Helsinki's new center, if we compare the railway station, which he had designed ten years earlier with Saarinen and Gesellius, with his Kalvia Insurance Company Building (1911–14; fig. 47) and the neighboring Seurahuone Hotel and restaurant, designed some ten years later. Like the neo-Renaissance buildings of the late nineteenth century, which line Boulevard and Esplanadi and introduced continental flair and lifestyle into Helsinki, this new architecture—marked by repetitive elements and bold continuous surfaces—brought an aura of continental *Grossstadt* into the city by capturing the dynamic tempo of the twentieth-century metropolis. One can



46. Frosterius, skyscraper project for downtown Helsinki, 1921, *Museum of Finnish Architecture*, Helsinki.

47. Armas Lindgren, Kalvia Insurance Company Building, Helsinki, 1911–14



Chapter Six Regional Plans

When Alvar Aalto started to engage in the discussion about urban and regional planning in the early 1930s, the combination of the economic recession and the rise of the extreme right had diminished the prospects for architects, particularly modern architects, in western Europe. The situation in Finland was different, however. Except for a brief downturn in the early 1930s, the interwar years there were marked by economic growth as the country developed from a supplier of raw materials to a producer of advanced industrial products.<sup>11</sup> During this period many single-unit factories started to develop into multiregional, export-oriented companies. Industry has historically played a significant social and political role in Finland. During the 1930s industry joined forces with the public sector to help reconstruct the country, which was hard hit by the Second World War. Economic interest merged with nationalist sentiments, and the era gave birth to a "patriotic manager" type of leader, who understood industry's role in ensuring the economic and social well-being of the nation.<sup>12</sup> Artturi Ilmari Virtanen's 1945 Nobel Prize in chemistry for his work in animal nutrition contributed to making industrial and technological prowess, along with the country's natural setting and cultural achievements, integral to Finland's national identity.<sup>13</sup>

As Aalto's connections to Finnish industry and local government grew closer during this period, his thinking about architecture's social and geopolitical function started to include economic, social, and even security concerns. His professional activities grew to encompass roles as a businessman (1933–), a wartime public relations figure (1933–), the head of the Finnish reconstruction office (1942–47) established by the Association of Finnish Architects (SAFA), and the chairman of SAFA (1942–50). Starting around 1940, his commissions started to include regional plans, a subject which will be elaborated in this chapter. Extended stays in the United States, with its ethnically heterogeneous population and expansive territory, led him to think differently about the development, power structures, and spatial governance of his homeland. Exchanges with leading American architects, critics, and business leaders provided him with a new framework for thinking about the relationships between individuals, communities, private entities, and the public sector.

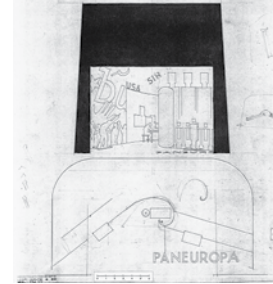
The year 1935 marks, in many ways, a turning point for Aalto, not least because in that year he moved his family and office to Helsinki. In addition to meeting Maire Gullichsen, the daughter of Finland's leading industrial families, the Ahlströms, who became a founding partner and a shareholder of Artek that year, he developed a productive professional relationship with her husband, Harry Gullichsen (1902–1964), an economist and a managing director of her family's business, A. Ahlström Company, a manufacturer of forestry products and Finland's largest industrial conglomerate at the time. Harry Gullichsen became Aalto's most important repeat client and an access point to the nation's political and economic elite. In addition to completing the family's residence, Villa Mairea, in 1938–39, they worked together on many large-scale planning and building projects for the growing company.

"economic, cultural, and economic affinities," an organic pan-European community of countries would foster empires among nations and peoples. Coudenhove-Kalergi warned that the "abstract structure" of the League of Nations failed to produce a "response in the sentimental life of mankind, which, starting from the family, passes by degrees through nations and groups of nations, and culminates in the ideal of world-embracing humanity."<sup>14</sup>

Scandinavian modernism sprang directly from this political climate of competing visions of cosmopolitanism and increased pan-European collaboration. Many of Aalto's Finnish friends were members of Clarif, an organization established in 1930 by the Finnish author Henri Blomstedt to promote peace and pan-European culture in the wake of World War I (The organization was named after a novel that he had published the same year, in which he gave a firsthand account of his experiences on the Western Front.<sup>15</sup>) The Swedish chapter of Clarif was founded in 1921 and included all the leading intellectuals and writers in the country, as well as such prominent members of the Swedish Social Democratic Party as Åsa and Gunnar Myrdal, promoters of disarmament and social welfare (and later Nobel Peace and Economic Prize laureates, respectively) Selma Lagerlöf, the Nobel Prize-winning novelist and Aalto's friend Sven Markelius (1889–1972), a member of the Accepters group. Clarif did not take root in Finland, mainly because the Finnish intelligentsia was skeptical of its leftist leanings. There were a few exceptions: the playwright Hagar Olsson (1883–1978), a leading figure in the Finnish chapter of Clarif, shared Aalto's interest in pan-European ideals.<sup>16</sup>

Aalto's Clarifian friends taught him that in the same manner that a modern nation was modern only when it opened itself to transnational influence and exchange, transcending the limitations posed by an individual psyche was a prerequisite for an individual to be modern. A truly modern subject was seen as porous and adaptable to new conditions. This, in turn, called for architecture to facilitate the feeling of being part of the world at large in all its multitudes and dynamism, even chaos. Aalto's ambition was to find an appropriate architectural strategy, both organizational and semantic, to evoke and embody this new condition.

Aalto designed a stage set for Olsson's antiwar play *S.O.S.* that offered an inkling of his new architectural strategy. Fitting for this new task (figs. 51, 52), the play, performed in 1929 at Aalto's Turku Theater, captured the sentiments of the generation that had come of age during the Great War. Aalto communicated the horrors of the war by using modern media and representational techniques: front pages of newspapers were projected onto the stage flats and fragmentary walls, depicting the destruction of a new island or national and social island. He inscribed the word *reunustalon* on the floor in a call for unity among nations. The message was clear: in order to avoid another war, a new political system and a new social paradigm—solidarity—were needed. The design makes the point that art and architecture should connect viewers with reality rather than separate them from it. Art can achieve this by providing a sensory experience in which fragments of reality—in this case newspaper clippings—break down



51. Aalto, stage set for Hagar Olsson's play *S.O.S.* at the Turku Finnish Theater, 1929  
52. Aalto, stage set for *S.O.S.*

in early January 1942, demonstrates Aalto's mastery of tailoring an argument with how his new geopolitical position in mind. It is worth quoting the letter at length to show how Aalto persuaded Finland to align itself with the United States and the West:

**As you know, the first real, open fighting of the world war has begun in Finland. It is the Russian terror-system which now shows its will to expand all over the world. Western social thinking—constructive activity—has shown itself more of a success than the Russian collective system can stand. All of us who have worked for a real socially positive future now have the same battle to fight, the battle that has begun here.<sup>17</sup>**

The letter also demonstrates that Aalto was particularly aware of the importance of deemphasizing national Finland's motivations, even when writing to gain support for a patriotic cause:

**I hope that this will confirm to you the idea that the battle is "our common" one—a way a religious battle—not for a nation, that is an obsolete idea, nor a schematic conception of inherited Western culture, but a battle for the constructive will and the constructive knowledge, which exists in all of us and everywhere in the West. It is a fight of the balanced social progress against modes and systems, which have shown themselves incapable of constructing a development and where blind theory is combined with destructive and profoundly conservative methods.<sup>18</sup>**

In an attachment sent to dozens of other friends across the world, Aalto focused on his critique of the Soviet system, which had in its twenty years of existence proved less successful than northern European social democracies in providing a better standard of living to the working class. He described the social model of the Nordic countries as a hybrid between capitalism and socialism, and individualism and collectivism, in Mundtarian terms:

**Within the constitution of their states the Northern democratic countries have shown innumerable cases and methods whereby social progress has given permanent results. At the same time as their standard of living has shown an uninterrupted rise, they have been able to gain an elastic social system where new and old methods—state socialism side by side with private initiative and co-operative activity—have formed an elastic basis for civic life.<sup>19</sup>**

Aalto further shows his political savvy by arguing that the war Finland was fighting was not a territorial dispute but a war over values. He knew well that since the U.S. and Soviet Union were military allies at this point, Americans would support only humanitarian causes. He continues:

**The Russian attack on Finland was more directed against a social development which proved superior to the practically untamed doctrines of the Soviet state than by geographical or territorial motives. Because of that the front in Finland is not a national front nor a front of socialism against bourgeoisie but the front no. 1 of the west—the front where the unsuccessful theory overpowered by barbaric methods stands on one side and a balanced Western social development with a bright future stands on the other side.**

After successfully soliciting a check for \$1 million from the personal funds of Laurence S. Rockefeller to aid the Finnish war effort (Aalto's cable to Rockefeller had read: SEND LAURENCE ROCKEFELLER CHECK TO HELP US, AALTO), he convinced his superiors that the country would benefit from sending him to America as a sort of one-man propaganda unit in search of additional American sympathy and aid for his beleaguered little nation.<sup>20</sup>

His commission was to last six weeks, but Aalto extended it intentionally as he was certainly interested in getting himself and his family out of harm's way—his patriotism did not extend to a willingness for self-sacrifice. He spent March to October 1940 visiting his American friends, giving lectures, and writing articles to gather assistance for the Finnish war effort. Results of his further fundraising efforts were meager—the Hoover Foundation managed to contribute only \$2 million—probably because the United States was still maintaining isolationist policies and hoping to avoid involvement in the European war.<sup>21</sup>

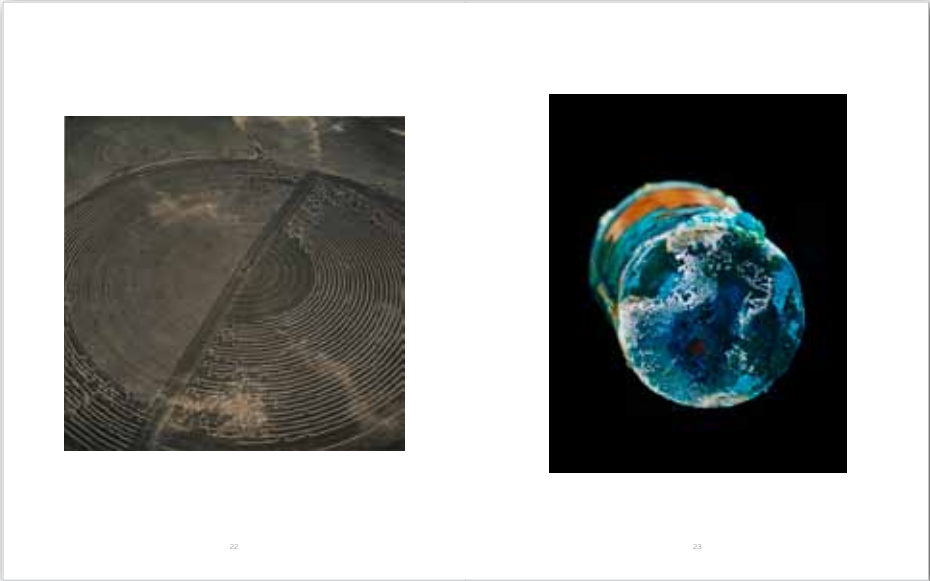
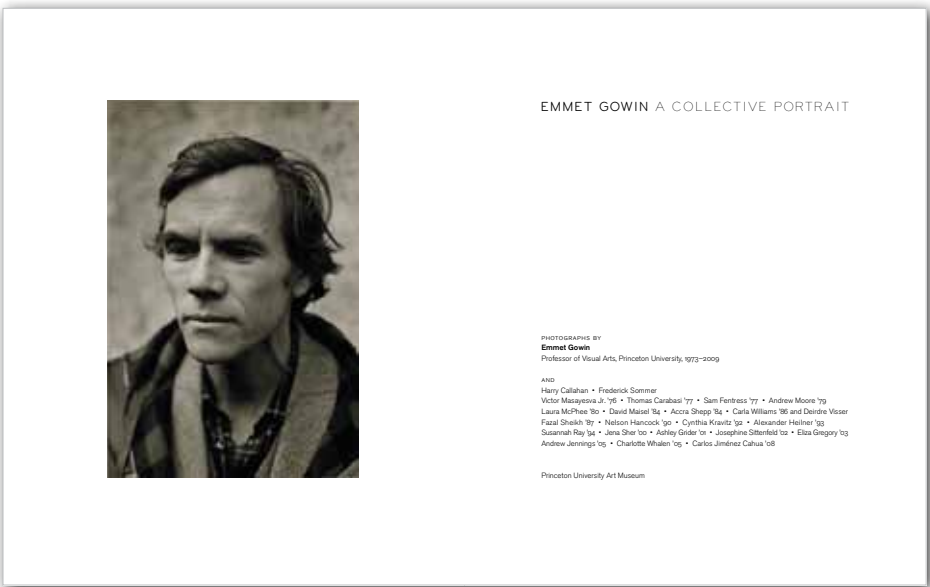
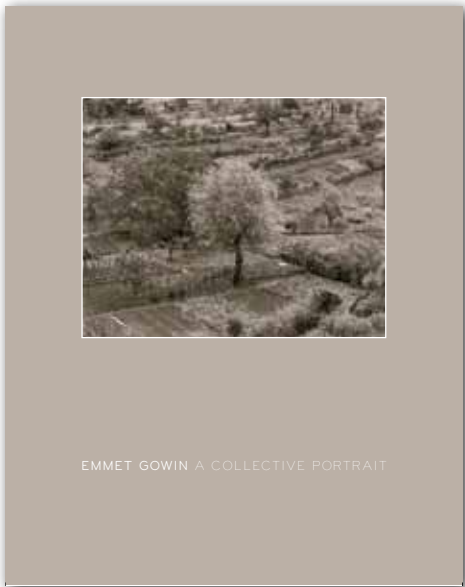
Although Aalto's efforts failed to yield more assistance for the Finnish government, the time spent in America helped Aalto to develop his thinking on architecture's geographic and increasingly political dimension, going beyond the simplistic dichotomy between national and international architecture that had dominated European architectural debates in the early part of twentieth century. His article "Finland" for the July 1940 issue of *Architectural Forum* outlines the alternative: regionalist principles (fig. 71). Aalto starts by situating Finnish architecture in the context of the international modern movement: "In Finland the revolution in architecture is naturally part of the whole international movement, but, at the same time it is not an isolated phenomenon in the country's internal life. As in other countries with a more or less provincial culture, modern architecture did not appear in Finland as a superficially 'light' trend in imitation of the great European centers."<sup>22</sup> Aalto continues, "Even though there is today in Finland, as in all countries, a good deal of superficial modernism, the country itself, its climate, resources, topography and ways of living afford a mass of material which forms a good base for the solution of problems of contemporary architecture."<sup>23</sup>

While Aalto participated in the wider intellectual debates over what constitutes architecture's relationship to a particular geographic location, in the end, "Finland" was aimed at convincing his American audience that the Finns had nothing to do with the (putative) communist-infiltrated international modern movement. The best of Finnish modern architecture, by which he probably meant his own work,

Regionalist planning ideas were put into practice on a large scale when Aalto and Gullichsen joined forces in 1940 to conceive the Kolemäki River Valley Regional Plan for the town of Pori and its surroundings. The plan was to encompass new settlements, infrastructure, production, and recreational facilities, as well as to regulate the spatial relationships between these functions (fig. 8). The plan demonstrates how Aalto ended up applying regionalist ideas in the



81. Aalto, Kolemäki Lake Valley Plan, 1940



Emmet Gowin A Collective Portrait Princeton University Museum (7.5" x 9.375", 48 pages)



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### About the Design Trust & GAPCo

**DESIGN TRUST FOR PUBLIC SPACE**  
 The Design Trust for Public Space is a 501(c)(3) not-for-profit committed to improving the quality and understanding of New York City's public realm—from parks, plazas and streets to public buildings and modes of transportation. The Design Trust is the only New York City organization devoted to bringing private sector expertise to bear on public-space issues. Since 1995, the Design Trust has successfully completed over two-dozen projects, improving the urban experience for all New Yorkers.

Each year, the Design Trust selects research and design projects from across the five boroughs. These projects are at the earliest stage, when targeted expertise can transform critical policy and development decisions. We engage teams of top architects, planners, industrial designers, landscape architects, graphic designers—whomever may be required to tackle the project—and provide fellowships to fund that work. However, we will not inaugurate a project without the collaboration of the city agency or community group best situated to implement the designs and plans we develop.

<http://designtrust.org>

**GAPCo**  
 The Grand Army Plaza Coalition (GAPCo) is an alliance of Brooklyn community groups and cultural organizations working together to improve Grand Army Plaza. GAPCo believes that Grand Army Plaza, despite its physical and cultural centrality to Brooklyn, misses its potential as one of the world's great urban spaces.

<http://www.grandarmyplaza.org/>

Coalition members include:  
 Brooklyn Botanic Garden  
 Brooklyn Greenway Initiative  
 Brooklyn Museum  
 Brooklyn Public Library  
 Citizens Committee for NYC  
 Brooklyn Community Boards 6 and 8  
 Eastern Parkway/Cultural Row  
 Neighborhood Association  
 Gowanus Community Stakeholder Group  
 Grand Army Plaza Greenmarket  
 Heart of Brooklyn  
 North Flatbush Avenue BID  
 The Open Planning Project  
 Park Slope Civic Council  
 Park Slope Neighbors  
 Project for Public Spaces  
 Prospect Heights Neighborhood Development Council  
 Prospect Heights Parent Association  
 Prospect Park Alliance  
 Transportation Alternatives

# PROJECT OVERVIEW

"GRAND ARMY PLAZA IS THE BUSIEST TRAFFIC CIRCLE IN BROOKLYN. IT IS ALSO PARKS' PROPERTY. ORIGINALLY DESIGNED BY OUR NATION'S PREEMINENT LANDSCAPE ARCHITECTS, FREDERICK LAW OLMSTED AND CALVERT Vaux, THE DESIGN TRUST'S PROJECT WILL HELP GRAND ARMY PLAZA BECOME A THRIVING GATHERING SPACE DESCRIBED BY OLMSTED AND VAUX'S ORIGINAL DESIGN. THE INNOVATIVE GOALS OF THIS PROJECT ARE FULLY IN LINE WITH THOSE OF THE PARKS DEPARTMENT, AS WELL AS THOSE OF THE MAYOR'S PLANYC INITIATIVE. WE ARE PLEASED TO BE INVOLVED."

ADRIAN BENFELD, COMMISSIONER, NYC DEPT. OF PARKS AND RECREATION

### Back to the Island

**JOHANNES NEUMANN**  
 ARCHITECTUR NEUMANN  
 HAGEN, GERMANY

Taking advantage of the proximity of Prospect Park's green spaces, this scheme reimagines the Plaza as a flexible, more urban space that could be used for a range of public events including markets, festivals, art shows, etc.

**Features**

- barriers removed
- traffic pushed to Plaza's edges, expanding center oval to form large urban plaza
- 2 bridges for pedestrians/bicyclists connect Plaza Streets East and West to center oval
- underpasses for pedestrians/bicyclists connects Prospect Park to center oval
- cafe and lounge bring people to the Plaza all hours of day

### Brooklyn Green Continuum: A Resilient Urban Plaza

**FLORA CHEN**  
 JERSEY CITY, NJ, USA

The Plaza's location within the proposed Brooklyn-Queens greenway bike route is emphasized by a bike exchange station inside the Arch. The eastern roadway is closed to cars on weekends for use by the greenmarket.

**Features**

- Plaza linked to Brooklyn/Queens bike greenway route
- bike exchange installed at Arch
- new home for greenmarket on eastern roadway
- pedestrian underpass from Prospect Park
- barriers leveled and opened as parkland
- center oval slopes to rainwater collection basins, water used for irrigation

## Anchoring Grand Army Plaza to Brooklyn

EMILIE COSSAMINI  
NEW YORK, NY, USA

A wide pedestrian promenade sketches from the Park through the Plaza. Barms are removed, traffic is pushed to the Plaza's edges, and the center oval is expanded. A series of green rooms support activities that draw visitors.

- Features**
- Barms removed
  - traffic pushed to Plaza's edges, expanding center oval
  - north-south pedestrian promenade, market space and cafe patio
  - green rooms provide quiet outdoor spaces for urban use
  - new crosswalks at junctions of side streets to east and west

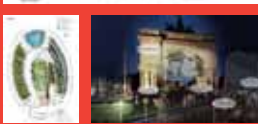


## The Aqua Plaza: An Idea for a New Urban Hydro-Scape Typology

OSIENE ERNE, PHINAT XANAWANE  
NEW YORK, NY, USA

A series of connected water features—"hydro-scape"—transforms Grand Army Plaza into the central node of a neighborhood water-harvesting, filtration and irrigation system that is educational, beautiful and functional.

- Features**
- elevated runways terraces and greenhouses with public garden plots bridge the eastern roadway
  - water wall screen for fire protection water retention pond for collecting storm water recharge north lawn
  - Bixby Fountain removed, central oval becomes "Fountain River" with creek surrounded by meadows



## 1st Place Prize Winner (tie) Please Wake Me Up!

GUILAUME SCRIBEN AND  
GAUTHIER LE ROMANEC  
PARIS, FRANCE

Traffic is "replaced" to the Plaza's spine, allowing the team space to reconnect with surrounding residential neighborhoods. Safety is increased by reducing unpredictable traffic movement with regular intersections. A generous, open, urban square bridges that gap between Park and Plaza, and offers a sense of tranquility and openness. A market hall becomes the greenmarket's year-round home.

- Features**
- Plaza is connected to Prospect Park via large pedestrian mall
  - traffic circle becomes a square with regular intersections
  - flexible open space for various activities
  - new building creates year-round home for greenmarket
  - magnificent views to the park through the arch from the pedestrian mall



## 3rd Place Prize Winner A Center for Brooklyn

JAMES GARRISON, BRANDT GRAVES,  
MICHAEL KING, MELCONI-GARDO,  
SIMON KRISTAK, VANESSA MOON,  
TIM PETERSON, SAL TRANCHINA,  
AARON TWEEDIE, DASHEN VAN  
PABUS, ELLIOT WHITE  
GARRISON ARCHITECTS  
BROOKLYN, NY

A wide center Plaza is created by pushing all traffic to a broad, tree-lined circular boulevard that replaces the barms. The expanded center becomes a platform for a range of community activities, much like Union Square or Bryant Park. An elevated pedestrian promenade circles the Plaza, provides views, and connects the Plaza's many elements.

- Features**
- barms removed
  - traffic pushed to Plaza's edges, expanding center oval
  - elevated pedestrian promenade
  - traffic calmed by making Eighth Avenue and Prospect Park West 2-way
  - safety increased with T-intersections and signals for both motorized traffic and pedestrians/bicyclists
  - system of lawns
  - cafe, greenmarket, playground
  - auditorium/performance space



# THE RE-INVENTING GRAND ARMY PLAZA EXHIBITION

## Designing the Exhibit

The exhibit was designed by the world-renowned firm Portogruon, who did both the architecture and the graphics. Their design was bold, elegant and eye-catching. It successfully drew visitors into the center of the Plaza like never before.



Portogruon's rendering of the exhibit design (Portogruon)



# eero saarinen shaping the future

Eric Lipton



Vincent Scully

## rethinking saarinen

A recent recent study of Eero Saarinen characterizes the criticism of some of his buildings that I wrote in the 1960s as "derivative" and "non-hostile." I'm sorry for that, if it is so, but it is true that at that time most of us, as evangelistic modernists, tended to be more categorical and exclusive in our judgments than I or one would be today, and at that time I earnestly believed that the work of Louis I. Kahn and Robert Venturi offered a much better way toward a reasonable future for architecture than Saarinen's did. I saw Kahn as developing a newly integral kind of design in contrast to what I believed then to be Saarinen's stylish packaging of forms. Mendelsohn called them "corporate advertising"—which is pretty much what I thought as well. I also came to regard Venturi's contextualism as releasing architecture from the crushing weight of that Germanic aesthetic to which Saarinen referred all too often.

I think I wasn't entirely wrong in much of that, but times have changed, as they always do, and today a good part of the architectural profession, liberated by the computer (or undelivered by it, may well regard Eero's more spectacular shapes as heroically conceived and inadequately appreciated precursors of their own, so more sympathetic and even useful to them than Kahn's massive geometries or Venturi's contextual and semiological concerns. That may or may not be true, but some sense of it has surely played a part in inspiring the exhibition and symposium associated with this book, which Eero richly deserves. He was clearly much more, at once more complex and more deeply serious, and more directly concerned with human use and meaning, than I thought he was so many years ago.

But I have asked myself what I can possibly contribute to his revival now. I can certainly neither defend nor disavow my remarks of thirty-some years ago: a look in the first instance, a pillow in the second. (Nor do I wish to let it be too easily, into the trap of the American good guy who wants to make everybody happy, and to speak nothing but good of the dead.) Still, the twinge of guilt is

13



Fig. 1. Eero Saarinen in a World War II uniform in Columbus, Indiana, ca. 1947. Also present are Eero's wife and their daughter Catherine.

Fig. 2. Suburban Center, an automobile center, Miller Cottage, Ontario, Canada, 1950-52. View from west.

own direction, building on them, neither rejecting their major tenets nor merely repeating them.

Eero and Irvia shared an approach to their work that was grounded in a strong moral framework. In 1959 Saarinen remarked, "I would say that the common denominator of my work is the constant philosophy—the constant respect for the principles in which I believe." For Miller, the necessity of a moral framework was rooted in his Christian faith, which he understood as applying to every aspect of his life and behavior. In the 1930s, when other businessmen in the United States were calling in police forces to crush unionization movements, Miller actively supported the formation of a union at his company. Miller was the first person to be elected president of the National Council of Churches in the United States. In this capacity, he helped organize the historic civil rights march on Washington in 1963, leading Rev. Martin Luther King, Jr., to tell him "the most progressive businessmen in America." In the 1970s, when the South African government under apartheid would not let his company run its factories and offices in a racially segregated nation, Miller chose to pull Quinlan out altogether, abandoning a 20 percent share of the South African market for direct engagement.

For both men, seeking to do the best they could in every endeavor was an imperative. When they worked together, each viewed the design process as a search for the best solution to the particular problem involved. Every project was an opportunity to start with a clean sheet of paper and seek to create a new model that would respect the modern age but could also serve to improve the efforts of others.

They were also both Yale graduates, and thus members of a community known for loyalty to its alma mater. Contrary to a story often published, Saarinen and Miller did not meet as undergraduates at Yale. Born in 1909, Miller was one year older than Saarinen. When Saarinen first came to Yale to study in the department of architecture in 1931, Miller had already graduated. They met in 1939 when Saarinen accompanied his father to Columbia for meetings with the building committee of the First Christian Church. As neither Eero nor Irvia was permitted in these meetings, Irvia was assigned the duty of playing host to Eero and Charles Eames, two young men about his age. The three of them made a habit of going to a local Victorian soda fountain where, over tea and cream and long discussions of design and the political situation in Finland, they struck up a friendship.

The problem here, and I believe it was the problem for their deep friendship, was the intersection of their work and its expression. Miller was Saarinen's most constant client: from 1950 until Saarinen's death, his office never lacked a project in his office.

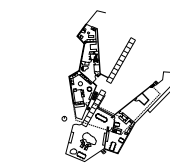


Fig. 3. Miller Cottage, an built plan, drawn by Miller, ca. 1950.

Fig. 4. Suburban Center, Miller Cottage, Ontario, Canada, 1950-52. View from west.



The building Saarinen did for Miller are among his best, in no small part because they work beautifully in addition to being beautiful. Their functionality reflects the fact that Miller was, Eero's father-in-law, a good judge of what was appropriate and what was not appropriate... He followed the evolution of the [architectural] profession so he knew what was going on, he knew what was being considered, he knew what was being written about and he was informed about it." Miller enjoyed the entire range of expression in Saarinen's work. Of the four buildings Eero designed for Irvia, each had its own vocabulary.

**THE MILLER COTTAGE (1952)**  
Saarinen's first commission from Miller came in 1950, the year Elio died, for a summer cottage on property in the Muskoka District of Ontario, Canada, where Miller's family had been summering since 1886. In both the cottage and the Miller House that followed, Irvia's wife, Xenia, played an active role in the design process as he did. Xenia Simons Miller grew up in Columbus and surrounding towns, the daughter of the owner of a furniture manufacturing business that failed in the Great Depression. After high school, she went to work as a purchasing agent at Cummins, where she became a skilled negotiator and reader of blueprints. She planned an attending college in the late 1920s, but a supervisor convinced her she would make more money pursuing her career in manufacturing. Irvia and Xenia began dating in the early 1940s. They were married in Washington, D.C., in February 1943, while he was in naval officer training.

In sharp contrast to the Mexican formal language of the General Motors Technical Center, which Saarinen was working on at the same time, the design of the Miller Cottage shows an interest in regional modernism (Fig. 2). It is best understood as a physical interpretation of the family's needs, growing directly out of the site and employing a palette of indigenous materials, arranged into a subtly fresh and radical expression. This approach was consistent with Saarinen's philosophy: "I see architecture not as the building alone, but the building in relation to its surroundings, whether nature or man-made surroundings." The particularity of the topography on the long rocky peninsula led him to abandon any repetition of a building module, instead arranging the rooms so that almost no wall intersects another at a right angle (Fig. 3). He reinvented the indigenous architectural traditions of the Muskoka "cottage" style—board-and-batten gables, deep stone-work, open-air porches, and simple unadorned construction techniques—in a manner as shocking locally as Frank Gehry's use of chain-link fence in his house in Santa Monica would be twenty-five years later.

59

Eric Lipton



Berkshires Music Center, Chamber Music Shed

Project by Eero

**Berkshires Music Center**  
Lanes, Massachusetts  
origin number 6111  
Tanglewood Shed, later Kouskouskiy Shed, 1938  
Chamber Music Shed, 1947  
Edward Hayes Tabors Orchestra Center, 1959  
Serge Kouskouskiy, the Russian-born conductor of the Boston Symphony Orchestra, hired the Saarinen firm to prepare a master plan for an extensive music center to include a music pavilion, an open-air theater, a school, and an inn. The Saarinen design for the pavilion, known as the Tanglewood Shed, called for a fan-shaped structure, clad in wood with a flat roof and a clear space in the interior. Before construction began, the partnership, seeking to save money, decided to incorporate interior columns, which caused the firm to quit the job. The partnership then hired a local architect, Joseph Tracy, who followed the partnership's request, in most other respects, the pavilion reflected the Saarinen scheme. The firm also designed a building intended for

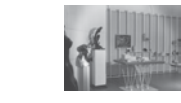


Berkshires Music Center, Edward Hayes Tabors Orchestra Center, Tanglewood Shed

Project by Eero

chamber music and opera, which resided at the edge of the main field. The shed structure incorporated a roof, sloped to break up and distribute sound waves, suspended from exterior laminated wood arches. In 1953, Eero Saarinen, working with the architectural engineer firm Bull, Buranak, and Newman, added an interior canopy of suspended triangular panels to the Tanglewood Shed, now called the Kouskouskiy Shed. [16]

"Proposed Pavilion Designed for Summer Symposium, Festival's Architectural Record, Jan. 1953, 44-45  
"View Shed Progresses Architecture, May 1947, 35-38  
"Tanglewood Open House Architecture Record, May 1947, 42-44  
"Tanglewood Open House Architecture Record, June 1947, 42-44  
"Berkshires Music Center Architectural Record, May 1943, 21-22



Exhibition of the Work of the Academy Staff

American National Theater and Academy competition, projection by Ralph Rapson

Exhibition of the Work of the Academy Staff installation design  
Crestbrook Hills, Michigan  
December 4-21, 1939  
Eero Saarinen and Charles Eames, in their first collaboration, designed this installation in the Crestbrook Pavilion on the Cranbrook campus. Photographs, drawings, and models were displayed in an environment of partitions that were either solid or perforated panels or lattice-like frames. The partitions were hung on a grid of metal rods and were placed perpendicular to one another, creating an overlapping, asymmetrical series of flowing spaces. The installation also included freestanding model bases and plans. [24]

"Division of the Work of the Academy Staff" Crestbrook Assembly Room, 1940



American National Theater and Academy competition, projection by Ralph Rapson

American National Theater and Academy competition, model

**American National Theater and Academy competition**  
College of William and Mary  
Williamsburg, Virginia  
1939, actual  
The American National Theater and Academy, chartered by Congress in 1935 to bolster the dramatic arts, sponsored this competition for a theater and fine arts building intended for a sloping waterfront site. Joseph Hudock, dean of the Harvard Graduate School of Design, wrote the competition program, which called for a theater, auditorium, music, and classrooms for the drama, music, sculpture, and architecture departments. Eero Saarinen, Ralph Rapson, and Frederick James began to work on a scheme in 1938 and each, in 1939, won first prize out of a pool of 122 entries. Their proposal, for which Rapson drew the principal renderings, called for four interconnected volumes, ranging in height from two to four stories. Three of the volumes, including one spanning the lake, were to incorporate horizontal 100-ft windows, while the fourth would contain a wedge-shaped theater and a block stage house tower. Toronto

were to descend from the theater, which occupied the site's highest point, to the auditorium. Other architects to enter the competition were Marcel Breuer and Philip G. Goodwin, who placed second; Richard Neutra and Hugh Stubbins, who each received an honorable mention; and the firm of Harrison and Fouhrouz. The jury was comprised of Lawrence B. Anderson, a professor at MIT, Leslie Cheek, a professor at the College of William and Mary who had been a friend of Saarinen's at Yale, the architect Antoni Rando, Lee Simonson, a scenic designer, and Roland Wark of the Tennessee Valley Authority. [16]

"Division of the Work of the Academy Staff" Crestbrook Assembly Room, 1940

Eric Lipton

133



Vincent Scully

## rethinking saarinen

A recent narrow study of Eero Saarinen characterizes the criticism of some of his buildings that I wrote in the 1960s as "derisive" and "vicious handi-". I'm sorry for that, if it is so, but it is true that at that time most of us, as evangelized modernists, modeled by more categorical and exclusive in our judgments than I for one would be today, and at that time I earnestly believed that the work of Louis I. Kahn and Robert Venturi offered a much better way toward a reasonable future for architecture than Saarinen's did. I saw Kahn as developing a newly integral kind of design in contrast to what I believed then to be Saarinen's stylish packaging of forms. Oshrafineff's Tefat called them "corporate advertising"—which is pretty much what I thought as well. I also came to regard Venturi's continuation as a relevant architect for the crumbling weight of that Gromex aesthetic to which Saarinen referred all too often.

I think I wasn't entirely wrong in much of that, but times have changed, as they always do, and today a good part of the architectural profession, liberated by the computer (or unshackled by it), may well regard Eero's more spectacular shapes as heroically conceived and inadequately appreciated precursors of their own: so many sympathetic and even useful to them than Kahn's massive geometries or Venturi's contextual and sociological concerns. That may or may not be true, but some sense of it has surely played a part in inspiring the exhibitions and symposium associated with this book, which Eero richly deserves. He was clearly much more, at once more complex and more deeply serious, and more directly concerned with human use and meaning, than I thought he was so many years ago.

But I have asked myself that I can possibly contribute to his revival now. I can certainly neither defend nor discover my remarks of thirty-some years ago as if in the first instance, a pillow in the second. Nor do I wish to fall, all too easily, into the trap of the American good guy who wants to make everybody happy, and to speak nothing but good of the dead. Still, the twinge of guilt is



Fig. 1. Eero Saarinen in a Warka chair at the house in Columbus, Indiana, in 1947. Accompanying are two Miller and the Miller Cottage.

Fig. 2. Miller Cottage, as built, plus design (1915-16).

own direction, building on them, other rejecting their major tenets more merely repeating them. Eero and Erika shared an approach to their work that was grounded in a strong moral framework. In 1930 Saarinen remarked, "I would say that the common denominator of my work is the constant philosophy—the constant respect for the principles in which I believe." For Miller, the necessity of a moral framework was rooted in his Christian faith, which he understood as applying to every aspect of his life and behavior. In the 1930s, when other businessmen in the United States were calling in police forces to crush unionization movements, Miller actively supported the formation of a union at his company. Miller was the first large-scale to be elected president of the National Council of Churches in the United States. In this capacity, he helped organize the historic civil rights march on Washington in 1963, leading Rev. Martin Luther King, Jr. to call him "the most progressive businessman in America." In the 1970s, when the South African government under apartheid would not let his company run its factories and offices in a racially integrated manner, Miller chose to pull Communist out altogether, abandoning a 20 percent share of the South African market for moral principles.

For both men, seeking to do the best they could in every endeavor was an imperative. When they worked together, such viewed the design process as a search for the best solution to the particular problem involved. Every project was an opportunity to start with a clean sheet of paper and seek to create a new model that would express the modern age but could also serve to improve the efforts of others.

They were also both Yale graduates, and thus members of a community known for loyalty to its alma mater. Contrary to a story often published, Saarinen and Miller did not meet as undergraduates at Yale. Born in 1909, Miller was one year older than Saarinen. When Saarinen first came to Yale to study in the department of architecture in 1931, Miller had already graduated. They met in 1930 when Saarinen accompanied his father to Columbus for meetings with the building committee of the First Christian Church. As neither Eero nor Erika were permitted in those meetings, Erika was assigned the duty of playing host to Eero and Charles Fames, two young men about his age. The three of them made a habit of going to a local Victorian soda fountain where, over ice cream and long discussions of design and the political situation in Finland, they struck up a friendship. The parallel is Eero's and Erika's lives on the grounds for their deep friendship. The intersection of their work gave it expression. Miller was Saarinen's most constant client: from 1930 until Saarinen's death, his office never lacked a project for Miller.



Fig. 3. Miller Cottage, as built, plus design (1915-16).

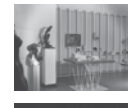
Fig. 4. Drawing of Miller Cottage, being room.



The buildings Saarinen did for Miller are among his best, in no small part because they were beautiful in addition to being beautiful. Their functionality reflects the fact that Miller was, as Erika Fisher notes, "a good judge of what was appropriate and what was not appropriate. . . . He followed the evolution of the [architectural] profession or to know what was going on, he knew what was being considered, he knew what was being written about and he was informed about it." Miller enjoyed the entire range of expression in Saarinen's work. Of the four buildings Eero designed for Erika, each had its own vocabulary.

THE MILLER COTTAGE (1932) Saarinen's first commission from Miller came in 1930, the year Eero died, for a summer cottage on property in the Muskoka District of Ontario, Canada, where Miller's family had been summering since 1866. In both the cottage and the Miller House that followed, Erika's wife, Xenia, played an active role in the design process as he did. Xenia, Eero's sister, grew up in Columbus and surrounding towns, the daughter of one of a furniture manufacturing business that failed in the Great Depression. After high school, she went to work as a purchasing agent at Owens, where she became a skillful negotiator and reader of blueprints. She planned to attend college in the late 1920s, but a surprise contract for her would make more money pursuing her career in manufacturing. Erika and Xenia began dating in the early 1940s. They were married in Washington, D.C., in February 1943, while he was in naval officer training.

In sharp contrast to the Mission formal language of the General Motors Toolcraft Center, which Saarinen was working on at the same time, the design of the Miller Cottage shows an interest in regional modernism (Fig. 2). It is best understood as a physical interpretation of the family's needs, growing directly out of the site and employing a palette of indigenous materials, rearranged into a totally fresh and radical expression. This approach was consistent with Saarinen's philosophy: "I am architect not as the building alone, but the building in relation to its surroundings, whether nature or man-made surroundings." The particularities of the topography on the long rocky peninsula led him to abandon any repetition of a building model, instead arranging the rooms so that almost no wall intersects another at a right angle (Fig. 3). He reinterpreted the indigenous architectural traditions of the Muskoka District "village country"—board-and-batten siding, four-stone-work, open-air porches, and simply made construction techniques—in a manner as building locally as Frank Gehry's use of chain-link fence in his house in Santa Monica would be twenty-five years later.



Exhibition of the Work of the Academy Staff installation design

College of William and Mary Williamsburg, Virginia

1939

Exhibition of the Work of the Academy Staff installation design

College of William and Mary Williamsburg, Virginia

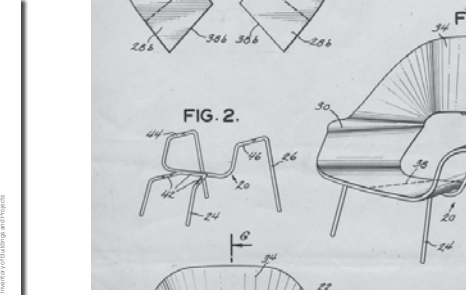
chamber music and opera, which resulted at the edge of the main field. The wood structure incorporated a roof, shaped to break up and distribute sound waves, supported from exterior laminated wood arches. In 1959, Eero Saarinen, working with architectural engineering firm Bolt, Beranek, and Newman, added an internal canopy of suspended triangular canopies to the Tangewoods Shed, now called the Koussevitzky Shed (TM).

Project: Eero Saarinen, Director, Summer Symposium, Peabody Architectural Center, 1939. Eero Saarinen, Director, Summer Symposium, Peabody Architectural Center, 1939. Eero Saarinen, Director, Summer Symposium, Peabody Architectural Center, 1939.

Project: Eero Saarinen, Director, Summer Symposium, Peabody Architectural Center, 1939. Eero Saarinen, Director, Summer Symposium, Peabody Architectural Center, 1939. Eero Saarinen, Director, Summer Symposium, Peabody Architectural Center, 1939.

**132** **Berkshire Music Center**  
Lenox, Massachusetts  
architect: Eero Saarinen  
Tangewoods Shed, later Koussevitzky Shed, 1938  
Chamber Music Shed, 1947  
Edward Tawes Tablot Orchestra Center, 1959  
Serge Koussevitzky, the Russian-born conductor of the Boston Symphony Orchestra, hired the Saarinen firm to prepare a master plan for an extensive music center to include a music pavilion, an open-air theater, and/or an arena. The Saarinen design for the pavilion, known as the Tangewoods Shed, called for a fan-shaped structure clad in wood, with a flat roof and a clear span in the interior. Before construction began, the symphony, seeking to save money, decided to incorporate interior columns, which caused the firm to quit the job. The symphony later hired a local architect, Joseph Fane, who followed the symphony's request. In most other respects, the pavilion reflected the Saarinen scheme. The firm also designed a building intended for

**133** **American National Theater and Academy competition**  
College of William and Mary Williamsburg, Virginia  
1939  
The American National Theater and Academy, chartered by Congress in 1935 to bolster the dramatic arts, sponsored this competition for a theater and fine arts building intended for a sloping hillside site. Joseph Hubert, dean of the Harvard Graduate School of Design, wrote the competition program, which called for a theater, exhibition space, and classrooms for the drama, music, sculpture, and architecture departments. Eero Saarinen, Ralph Rapson, and Frederick James began to work on a scheme in 1938 and in 1939 won first prize out of a pool of 122 entries. His proposal, for which Rapson drew the principal renderings, called for four interconnected volumes, arranged in a high-contrast fan to the stairs. Three of the volumes, including one spanning the site, were to incorporate horizontal strip windows, while the fourth was to contain a wedge-shaped theater and a brick design house "tower." Rapson



**134** **Organic Design in Home Furnishings competition**  
1940  
Dunlap Chair, 1940-48  
World Chair, 1944-48  
Prestelia furniture series, 1954-57  
In 1945, around the time he began developing his Pedestal series of chairs and tables for Knoll, Associates, Eero Saarinen announced to his colleagues in his office: "We have four-legged chairs, we have three-legged chairs and we have two-legged chairs, but we do not have three-legged chairs, so we are going to do it."  
This is perhaps the best summary of Saarinen and his approach to furniture design. Implicit in his statement was Saarinen's understanding of existing designs as a set of solutions, his sense of challenge in the face of what he perceived as an empty category in this complex analysis, and the absolute certainty that there would be a one-legged Saarinen chair. The only thing missing from Saarinen's confident prediction was the immense popularity his Pedestal chairs and tables would achieve.  
Saarinen approached the design of his furniture in the mode of a modernist, balancing art and technology, searching his particular gift as an artist with his insatiable technical curiosity. His innovative use of compound molded plywood and his first use of plastic in mass-produced chair frames as a leader in twentieth-century furniture design. The forms of Saarinen's furniture designs retain their sculptural appeal to this day.  
**EARLY DESIGN**  
Saarinen created his first furniture designs for the master bedroom of the Saarinen home at Cranbrook, designed and built in the late 1920s when he was still a teenager, and for the Kingswood Island for Girls. The

while to descend from the theater, which occupied the site's highest point, to the landscape. Other architects to enter the competition were Marcel Breuer and Philip G. Gooden, who planned second Richard Neutra and Hugh Stubbins, who each received an honorable mention, and the firm of Harmon and Pauline. The jury was composed of Lawrence B. Anderson, a professor at MIT; Leslie Chase, a professor at the College of William and Mary; and Wallace of Saarinen's at Yale, the architect Antoni Raymond Lee Simonson, a scenic designer, and Robert Frank of the Tennessee Valley Authority (TVA).  
"Winner of National Theater Competition  
"Winner of National Theater Competition  
Apr. 1939, p. 61-64

**135** **Exhibition of the Work of the Academy Staff**  
College of William and Mary Williamsburg, Virginia  
1939  
The American National Theater and Academy, chartered by Congress in 1935 to bolster the dramatic arts, sponsored this competition for a theater and fine arts building intended for a sloping hillside site. Joseph Hubert, dean of the Harvard Graduate School of Design, wrote the competition program, which called for a theater, exhibition space, and classrooms for the drama, music, sculpture, and architecture departments. Eero Saarinen, Ralph Rapson, and Frederick James began to work on a scheme in 1938 and in 1939 won first prize out of a pool of 122 entries. His proposal, for which Rapson drew the principal renderings, called for four interconnected volumes, arranged in a high-contrast fan to the stairs. Three of the volumes, including one spanning the site, were to incorporate horizontal strip windows, while the fourth was to contain a wedge-shaped theater and a brick design house "tower." Rapson