This issue of *EAP* completes our 16th year. We enclose a renewal form and would appreciate responses as soon as possible so there will be fewer reminders to send in the first 2006 issue.

This issue includes news from readers and a sizeable list of citations received since our spring issue. You’ll note we’ve completed a full year of *EAPs* at full-paper size. We made this shift because some readers were having difficulty deciphering the smaller print of the 8 ½ x 8 ½” version that was published from 1990 to 2004.

We have increased the number of pages this issue to accommodate an important essay by architect Rachel McCann. This piece was originally awarded third prize in an architectural writing competition sponsored by AEEA—*Association Européenne de l'Enseignement de l'Architecture*—an international organization concerned with architectural research and pedagogy. McCann’s essay is significant because it examines the relationship between effective design teaching and an understanding of how embodied experience plays a central role in good architecture.

Also included in this issue is graduate student Lin Wong’s essay, which marks the start of a phenomenology of bicycle commuting. Drawing on her own Toronto biking experiences and published accounts of others, Wong examines how bike and route mastery offers one kind of personal empowerment for urbanites.

As usual, we would very much appreciate reader input, whether items of information, achievements, citations, reviews, essays, designs, drawings, or the like. Send things along!

---

The image, left, shows a detail from a vessel for light, shadow, and wind made by Will Couch, a student in a 1st-year architectural design studio at Mississippi State University taught by architect Rachel McCann—see her essay on p. 8. A main aim of this project was to address the intersection of materials and space with human inhabitation as it is influenced by moving sunlight through the day and year and prevailing summer and winter winds. Couch’s work explores the potential of concrete, wood dowels, and fabric for enclosing space and interacting with light and wind. The project is part of a year-long studio experience that introduces beginning students to architectural design by examining the lived interaction with the world’s materiality and sensuousness as the ground for architectural conceptualization.
News from Readers

Eduardo Frederico Augusto is a Brazilian sociology master's student at the University of New Brunswick, Canada. His main research interest is a “phenomenology of disasters,” including hurricanes, earthquakes, fires, and the like. His master’s thesis is an investigation of how electric linemen understand disasters. He hopes to continue doctoral work on this and related situations. He would like to hear from readers who have suggestions for PhD programs that might sponsor such research. 

efarunte@hotmail.com.

Susan Mazur-Stommen completed her doctorate in Cultural Anthropology at the University of California, Riverside, in 2002 and is now a research associate with that institution. Her Engines of Ideology: Urban Renewal in Rostock, Germany 1990-2000 (Berlin: LIT Press, 2005), is an ethnography of a small city in former East Germany.

Her research is about processes of historic preservation and gentrification in post-socialist cities like Rostock, Vilnius, and Tallinn, which have their roots in the Hanseatic period. Questions that interest her concern the relationship between ideology and specific architectural forms. In other words, does what you build reflect who you are as a society? www.susanmazur.com.

Mark Miller of Mark A. Miller Architects/Builders, Chicago, informs us that one of his residential projects has been published in the July/August 2005 issue of Natural Home & Gardens magazine. The eight-page feature is entitled “In Chicago, a doppelgated red-brick brownstone gets a makeover that blends historic with modern Asian.” Miller writes that if anyone would like a copy, he will forward a scanned file. 

mark@zenplusarchitecture.com.

Silke Schilling lives in Germany and is interested in a Goethean approach to place and place making, especially the question of how places can be healed. She recently completed the master’s program in holistic science at Schumacher College in England.

She writes: “I have a background in civil engineering and in environmentally sound building materials, technologies, and architecture as well as in sustainable transport. I worked with the City of Berlin in public transport planning for fourteen years, until I had to acknowledge that my work did not make as much sense as I think it is supposed to make, although circumstances at least allowed for rejection of road planning without losing job opportunities. The inertia of bureaucracy far exceeded the options to work for the good of the city. Additionally, I was not in a position to work on changes toward sustainability and beauty of cities.

“For my thesis at Schumacher, I did a number of Goethean studies in Siena, Italy and New York City. The messages of the places studied are such that I feel I would like to do something about them, and at the same time involve a wider group of concerned people.

“I would like to do further research on how sacred design of the city and place in general can emerge out of in-depth encounters, i.e. direct perception of what places are and ask for, and how this can relate to healing of places and people, to sustainability, ecology and spirituality.”

commonsense4cities@yahoo.co.uk.

Citations Received


A historical and design study of the enclosed garden (hortus conclusus), which “captures and isolates aspects of nature and landscape in a relatively small, confined space.” Includes helpful conceptual drawings.


This architect examines “how space ordering in premodern Islamic architecture reflects the transcendental and the sublime…. Religious beliefs about the cosmos, geography, the human body, and constructed forms are all underpinned by a consistent spatial sensibility anchored in medieval geocentrism. Within this geometrically defined and ordered universe, nothing stands in isolation or ambiguity; everything is interrelated and carefully positioned in an intricate hierarchy.”
A thoughtful probe into what the Enlightenment emphasis on individual freedom and growth has come to be environmentally and architecturally—namely, that “the material world around us should have a new primacy in defining self and anchoring consciousness.” Among other things, this idea spawned “the bourgeois single-family dwelling and the residential suburb, both of which in turn embraced new ideas of privacy, property, and selfhood.”


Thirty-one articles dealing with various aspects of the “relationships between cities, urban life, and new technologies.” Article titles include: “Do Telecommunications Make Transportation Obsolete?” “Geographies of E-Commerce: The Case of Amazon.com,” “The Web, The Grocer and the City,” and “Cybernetic Wal-Mart: Will Internet Tax Breaks Kill Main Street USA?” Helpful introductions to each article.


A greatly disappointing volume that would be better titled *Key Positivist and Poststructuralist Thinkers on Space and Place*. Short essays on such figures as Jean Baudrillard, Pierre Bourdieu, Manuel Castells, Denis Cosgrove, and so forth. The only fully phenomenologically-inspired figure to receive attention is humanistic geographer Yi-Fu Tuan. Amazingly, there are no entries on key figures like Edward Casey, Mircea Eliade, Martin Heidegger, Maurice Merleau-Ponty, or Edward Relph. A sad commentary on the poststructural mindset that dominates academic debate today, especially in Europe.


This dissertation explores the lifeworld and everyday experiences of place for the Dajarra Aboriginal community of Northwest Queensland, for whom the Georgina River “is a heartland” in their everyday lived geography. The work argues that the cultural heritage of the Dajarra “lies not just in the physical environment but also in the diverse everyday people-environment interactions of that community.”


Though couched conceptually in the poststructural language of Michael Foucault, this book is a highly readable study of how buildings can express ideas about nature. The focus is “the changing ideas of what nature has meant for the United States and how it has been represented in buildings and landscapes over the past century.” Topics include the exhibiting of wilderness at Chicago’s 1893 Columbian Exposition (chap. 1); building the Tennessee Valley Authority (chap. 3); and Los Angeles houses of the nuclear age, including homes with bomb shelters (chap. 4).


This article argues that “current practice and reference to ‘environmental values’ in the environmental research and management arena is in a chaotic and unsustainable state.”


This architect examines the relationship between Heidegger’s philosophy and his homes—his Black Forest hut and his city house in Freiburg-im-Breisgau. “Heidegger sustained simultaneously quite different relationships with his house and hut—a disparity that contributes to an understanding of his philosophy and biography.”


An important effort to use Goethean science to understand natural landscapes and regions. Examples are drawn from the savannahs of East Africa, the rainforests of South America and Africa, the islands of New Zealand, the Great Rift Valley of Africa and the Middle East. Perceptive interpretation and striking illustrations.

This history of aural culture in early-20th-century America “charts dramatic transformations in what people heard and how they listened.” A product of modern amplification, broadcasting and recording technology, the universal new sound is “clear, direct, efficient, and nonreverberant.”


This student of world religions examines “both past and present relationships between religions and the environment.” Tucker emphasizes two key themes: “The magnitude of our ecological crises because of human activity and the urgency to address it, coupled with the singularly critical role religions, if enlightened and adapted, can play… to inform, inspire, and commend appropriate actions…”


Twelve essays that aim to present “the continuing significance of place in sport, to emphasize the sight as much as the site.” Exemplary topics include “Locating a ‘Sense of Place’: Space, Place and Gender in the Gymnasium” (chap. 1), “Sensing in the Stadium” (chap. 2), “Just Another Classroom? Observations of Primary School Playgrounds” (chap. 5), and “Playing and Gravity: Mountains and Mountaineering,” (chap. 9).

---

**A Phenomenology of Commuting by Bicycle**

Lin Wong

Wong recently completed the Master of Environmental Studies program at York University in Toronto. Her research focus is transit planning in Toronto and its socioeconomic impacts on different groups in the city. She attended the University of Guelph where she studied Environmental Science. She wrote this paper under the direction of University of Toronto Philosophy professor Ingrid Leman Stefanovic, and the *EAP* editor thanks her for forwarding the paper our way. Readers interested in Wong’s essay may wish to peruse Joel Fajans and Melanie Curry’s “Why Bicyclists Hate Stop Signs,” in the spring 2002 *EAP*.  

linwong@yorku.ca. © 2005 Lin Wong.

This essay examines phenomenologically the experience of commuting by bicycle. The essence of phenomenology is to avoid being dogmatic and caught up in “closed” definitions (Stefanovic 1994, p. 58). A phenomenon is interpreted as that which is directly evident or what immediately presents itself (Stefanovic 1994, p. 70). In this paper, I identify four “lived” aspects of commuter cycling: the “equipmental contexture,” the “equipmental whole” the “anticipatory stance,” and “bicycling as meditation.”

In developing this phenomenology of cycling, I draw on my 20-minute bike commute between my home and the University of Toronto’s main library. I supplement my firsthand experiences with commentary from several popular accounts of cycling in general and urban cycling in particular. Phenomenology recognizes that the lived meaning of the environment reveals itself within a holistic context of understanding (Stefanovic 2000, p. 69). As such, I realize that my past experiences as a bike courier influence and enhance my commuting experience on the same streets that I once rode for my work.

How did I become a commuter cyclist? I learned to ride a bicycle as a child and started bike commuting in my teens because I disliked public transit. This feeling of exasperation overruled any prospect of being vulnerable to cars and traffic, a worry that probably holds back many urbanites who otherwise might become bike commuters.

This absence of concern toward motor vehicles transformed itself into confidence once I became a successful Toronto bike courier—full time for two-and-a-half months and part time for three months.
Because of this work, I now have the muscle power, speed, traffic-manuevering skills, and spatio-temporal knowledge of the city to go wherever I want. I know how to get to destinations and how long it takes.

I doubt I could have developed these skills through a mere 40 minutes of cycling a day, compared to the approximate eight hours of daily cycling I did as a courier.

The Route
I follow my particular commuting route due to available bicycle lanes and the attractive scenery of Toronto’s Bloor Viaduct. My trip between home and the library is short but varied and interesting. First, I leave my quiet residential street to turn on Broadview Avenue, along which I contend with vehicles, streetcars and streetcar tracks, go up a hill, and take in the scenery—Broadview is literally named. I then turn onto Bloor Viaduct, which includes a bicycle lane, no parked cars, and an “astonishingly beautiful view in all seasons.” (Hood 1998, p. 70)

Once I cross Sherbourne, the Bloor Viaduct bicycle lane ends, and I suddenly enter downtown traffic with all its obstacles, challenges, and thrills. The color of the stoplights at Avenue Road determines the final two blocks of my route. If the light is red, I go south on Queen’s Park Avenue to Hoskin Avenue, where I continue west to the library. If the light is green, I continue through the intersection, going west for two more blocks, turning south to St. George for two more blocks and arriving at the library.

Equipmental Contexture & Whole
Stefanovic (2000, p. 69) explains that “while we perceive the world from specific, individual perspectives, phenomenology recognizes that...the meaning of the perceived environment reveals itself within a holistic context of understanding.” Drawing on Heidegger, she emphasizes that we do not perceive the world as a sum total of individual, discrete entities.

Instead, “what is given to us primarily is the unity of an equipmental whole” and an “equipmental contexture of things.” (Stefanovic 2000, p. 68)

The equipmental contexture of cycling is the surroundings and circumstances that my cycling commute brings forth. This includes the streets that provide the path to move on, while everything that is passed along the way is scenery—buildings, parked cars, pedestrians, and the like. Any physical object that I must maneuver around or any situation that prevents me from a smooth trip is an obstacle—cars, pedestrians, street debris, traffic lights, or other cyclists. The limitations of my bicycle’s technology and body’s physical strength can also be considered as obstacles: I could have a lighter bicycle, or I could be stronger and thus go faster.

As Stefanovic suggests, we must also examine the equipmental whole of cycling, which can be considered as the bicycle and rider. I power the bicycle to move myself and my bicycle together, along with my cycling-specific apparel and equipment: helmet, cycling jacket, appropriate pants, warm gloves, cycling shoes, pannier and lock. The nature and quality of this equipmental whole is well pictured in the “Biker’s Creed” (Blackfelt 2000, n.p.):

This is my bicycle
There are many like it
but this one is mine.
My bicycle is my best friend.
It is my life....
Me and my bicycle dodge traffic.
Me and my bicycle are defenders of our freedom.
We are the saviors of my life.
Without me, my bicycle is useless.
Without my bicycle, I am useless...

The unity of the equipmental whole is literally expressed by the fact that I use clipless pedals. They fit into attachments (the cleats) on the soles of my cycling shoes. In essence, I am stuck to my bicycle at the pedal-foot point of contact. I concur with the
“roadies [who] love the clipless pedals for the feeling of oneness with the bike and energy saved, especially on the hills” (Weaver 1998, p. 81). It is only when I’m powering my bicycle on the street with all my gear that the bicycle takes meaning as a self-powered mode of transport.

Cycling has a synergistic affect in that, as human energy flows into the machine, the cyclist becomes empowered. Through this moving mechanistic appendage, people gain economic mobility, a healthy lifestyle, a sense of self-sufficiency, and a means of improving their potential (Perry 1995, p. 159). Cycling is also the most energy-efficient form of transportation, using less energy per passenger mile than any other mode and getting riders “from place to place faster than a motor vehicle for distances up to 6 km in downtown traffic” (Hood 1998, p. 18).

Knowing that I’m more efficient contributes to a feeling of freedom and independence. Sometimes when I decide to race with cars and end up getting ahead, I feel powerful because I overcome my disadvantage of being more exposed and thus more vulnerable than the drivers sheltered in their two-ton machines. As such, “the bicycle can be [a] vehicle for expressing sensual physical needs for pleasure, excitement, and speed” (Freund & Martin 1993, p. 178).

**Anticipatory Stance**

Being human involves the lived fact that we do not exist as freestanding objects like cups in a cupboard. Rather, we are always ontologically defined as being-ahead-of-ourselves (Stefanovic 2000 p. 71), a situation well described by city cyclist Julia King:

Most of my cycling is in London and actually I quite enjoy battling with the traffic. It’s exhilarating. You’ve got to keep awake and concentrate to foresee things that are likely to happen, like cars pulling out of junctions, or turning across you... it’s good for your reaction (Weaver 1998, p.153).

As King suggests, we do not simply see—we also look and automatically prepare. Human beings encounter their world by being, in some sense, always attuned to it and open to possibilities that may announce themselves in the future (Stefanovic 2000, p. 71). This ever-present alertness is indiated by Hood (1998, p. 29), when he advises the cyclist to “watch out for and predict potential hazards on the road ahead. Check over your shoulder frequently to monitor the behaviour of cars that are overtaking you.”

Glowacz (1998, p. 62) explains that offensive cycling, or “sly biking,” as some cyclists call it, involves techniques to predict driver actions: “you feel what the motorist ahead of you will do before he or she does it, so you react immediately—without slowing down.”

On busy streets with no bicycle lanes, I stay in the center of the street so that cars won’t pass too closely and no doors of parked cars will suddenly open in front of me. I need to feel entitled to make cars to be aware of me, molding the surrounding traffic to accommodate my presence. Forester (1993, p. 295) teaches cyclists to “take the lane”—i.e., ride down its center—when a street cannot be shared safely with motor vehicles. He explains (ibid.):

> Whenever you are riding as fast as or faster than traffic, take and use traffic lanes exactly as if you were driving a car... It sounds adventurous. People who don’t know will tell you it is dangerous. Militant motorists will accuse you of getting in their way. But it is the safest way to cycle.

**Biking as Meditative Experience**

Often in the mornings I groggily look in the mirror and think, “I need a morning wake-up ride.” Ballantine (2001, p. 243) advocates this aspect of cycling: “In the morning, instead of surrendering your existence to the vagaries of public transit or being trapped in a car, riding a bike puts you completely in charge and brings you up to snuff, stimulated, awake and aware.”

In effect, I let myself wake and warm up while cycling up Broadview Avenue. I take my time, enjoying the city skyline. The uphill exertion adds variety to an otherwise flat route. As I reach Bloor Viaduct, I’m ready to speed along the bicycle lane on the Viaduct and take in the scenery of the Don Valley.

While cycling requires concentration, there is also room for “a state of physical and mental meditation” (Alvord 2000, p. 145) As such, “commuting by bike makes part of the day exclusively yours” (Ballantine 2001, p. 243).

As a bike courier, the continuous movement allowed me time and mental space to ponder things going on in my life. As a commuter, I now don’t have as much time to “meditate,” but still “thoughts, worries
and emotions tend to flow through the mind from the meditative action of cycling” (Perry 1995, p. 163)
Also, “on the way home, you can have a vigorous ride to unwind from a hard day or relax a bit and take the time to explore a new bit of territory” (Ballantine 2001, p. 243)

Despite the potential street hazards I encounter on my commute, I rarely feel angry after arriving at my destination, even if something unfortunate does happen along the way. Recently, for example, I was almost hit by a passenger exiting a taxi—“doored,” as cyclists call it. In this brief moment as the taxi door swung open, I felt the effects of mental and bodily stress: the shock of potential injury and anger toward the taxi-rider’s negligence. As I continued riding, however, the upset dissipated, partly because “cycling stimulates a positive mental outlook through the effects of exercise which brings more circulation to the brain” (Perry 1995, p. 163).

While there were numerous things each day that would irritate me as a bike courier, I would tell my friends, “You just keep going. You can’t stop and dwell on someone’s stupidity because you have to concentrate on the road. Everything just rolls off your back.” Cycling brings freshness and alertness to the body and mind as compared to driving or riding public transit. As Ballantine (2001, p. 243) makes the point, cycling “adds zest to your day.”

A Metaphor for Life

While cycling presents many hazards and obstacles, overcoming these challenges provides a sense of confidence that can be carried over into other aspects of living. Indeed, cycling can be considered as a metaphor for life, offering a powerful sense of personal accomplishment and autonomy. Cycling is inherently holistic, since machine and person must move together in synch. The sum is certainly greater than the parts, a point well made in the last two lines of the “Biker’s Creed”: “Without me, my bicycle is useless. Without my bicycle, I am useless.”

References

“On the Hither Side of Depth”:
An Architectural Pedagogy of Engagement

Rachel McCann

McCann is an Associate Professor in the College of Architecture, Art, and Design at Mississippi State University in Starkville. This essay was awarded 3rd prize in the 2003-05 competition, “Writings in Architectural Education,” sponsored by the EAAE, an international, non-profit organization committed to the exchange of ideas and people within the field of architectural education and research. The essay was originally published in Writings in Architectural Education (Copenhagen: EAAE, 2005) and is reprinted with permission of EAAE.

Accompanying McCann’s text are examples of first-year architecture design student projects at Mississippi State done under her direction. These designs examine in various ways the sensuous, material, and spatial aspects of architecture: p. 9, Grace Kent’s color pastel perspective drawing that considers the multi-sensory experience of water and colored light; p. 11, Valarie Smith’s full-scale construction that adapts a window to express its functions of mediating light, wind, sound, and space between a building’s interior and exterior; p. 16, Grant Sherman’s graphic perspective drawing that presents a layered enclosure modulated by sunlight falling on material surfaces; p. 17, Wendy Gross’s full-scale construction that explores the changing relationships among a static set of openings, the fluid wallpaper pattern they are set within, and the patterns of sunlight that move across them. “All these projects,” writes McCann in an email, “developed from a conviction that the intimate experience of inhabiting space comes from corporeal and multi-sensory engagement.”

So the afternoon before it happened was like the other August afternoons. Frankie had hung around the kitchen, then toward dark she had gone out into the yard. The evening sky was pale and empty and the light from the kitchen window made a yellow square reflection in the darkening yard. The scuppernong arbor behind the house was purple and dark in the twilight. She walked slowly.

Frankie was too tall this summer to walk beneath the arbor as she had always done before; this year she had to hang around and pick from the edges like the grown people. She stared into the tangle of dark vines, and there was the smell of crushed scuppernongs and dust. Standing beside the arbor, with dark coming on, Frankie was afraid. She did not know what caused this fear. But she was afraid.

In The Member of the Wedding, from which this passage is taken, novelist Carson McCullers writes about the intimate experience of a place. The experience includes hopes, fears, time of day, movement, color, coming of age, space, enclosure, and memory. Through McCullers’s description, we as readers are immediately drawn into the experience of the space, not into its shape or appearance.

Space is the empty container of experience; it invites and enables experience. When we leave a place, we remember not the place itself but our experience of it. Echoes, smells, sudden changes in temperature when we pass from light to shadow, heat radiating from a sunlit wall, enframed or hidden views, a feeling of mystery, all contribute to our experience of architecture, and they all stem from the depths of our embodiment.

When we forget embodiment in conceptualizing a place, we produce concretized ideas, geometric constructs, structural grids—the empty container. Such containers tend to be placeless, geometric, and abstract. In designing thus, we distance ourselves from experience and “make love like an intellectual,” a phrase coined by Czech writer Milan Kundera to describe a lack of immersion in one’s immediate surroundings.

Just as Kundera notes the irony of detaching oneself during the most intimate of acts, it is ironic that architectural pedagogy stresses conceptual de-
sign methods to accommodate the intimate experience of inhabiting space.

At the start of the new millennium, the global culture is cobbled together—and simultaneously fragmented—by an unmanageable and rapidly growing body of technology, information, and disposable artifacts. Intimate experience, in which time seems to slow or stop altogether, is increasingly rare as the flow of information accelerates and the interconnected information web replaces the connection we “feel in our bones” with our material surroundings. Answers and consumer goods of all sorts are immediately and effortlessly available. Authentic, troublesome human relationships seem less worth the effort as chat rooms offer up an inexhaustible supply of virtual companions. And a careful, well thought out framework of ethics? Who has time?

In this milieu, architectural pedagogy must confront a number of essential questions. How do we integrate the speed and evanescence of the information age while making architecture that is primarily material and spatial? How do we find a ground for meaningful and ethical engagement with the larger world, both socially and environmentally? In the seemingly effortless world of consumerism, what is the role of difficulty and sustained effort? In an age where information reigns, how do we become comfortable with uncertainty? In a world whose most salient characteristic is rapid change, how do we find a stable foundation for architectural creation? In a fast-paced and visually dominated global environment, how do we understand and design for the intimate experience of a place? In order to engage these questions, architectural pedagogy must turn to embodied experience.

This essay describes the problems inherent in architectural pedagogy stemming from the mind-body split brought about by the Enlightenment and exacerbated by the information age, and makes the case for a pedagogy based in corporeal engagement. The essay describes several important aspects of embodied experience, drawing from the work of French phenomenologist Maurice Merleau-Ponty, and suggests what questions an architectural education stressing corporeal engagement might ask.

The essay then looks particularly at the issue of architectural representation, focusing on the role of the computer and the special challenges and opportunities presented by our interconnected and incorporeal information society. The essay suggests reasons and methods for directing architectural pedagogy toward greater involvement in the larger world, using both conceptual and perceptual design tools in concert with an attitude of engagement.

**Domesticating the Sensuous**

The gravest problem facing the field of architecture is lack of engagement with the surrounding world. Following a general trend of the Enlightenment to design educational programs emphasizing logic, clarity, and dispassionate manipulation of ideas and elements, we have become insular.

Although we are connected worldwide through the internet, we are increasingly insulated from our surroundings as we bury ourselves within the virtual world it brings to our desktop. Yet the internet merely advances the longtime aim of modern technology to push away the corporeal world in favor of mental constructs that we can “get our heads around” and manage more easily. The modern era’s corporeal disengagement is a long-developing consequence of western rationalism’s mind-body split.
Vision and language have traditionally been the primary vehicles through which western culture seeks to domesticate the sensuous world, and architectural pedagogy has long been complicit in this effort, training architects to produce buildings to be read and interpreted rather than experienced. Neoclassical geometric and proportional methods of composition, modern references to machine imagery, and postmodern historical pastiche all work to produce architectural designs we can understand through the visual relationships of form or the linguistic relationships of image.

Architecture is often designed to present itself compositionally to the gaze, aided and encouraged by our image-rich technology. Exotic shapes and eye-catching symbolic elements encourage us to visually consume and conceptualize architecture before ever corporeally experiencing it. They are meant to be taken up as images—short-circuiting embodied experience and producing instant meaning—rather than taken in spatially and materially over time.

The proliferation of information technology is both a symptom and a furtherance of the neglect of our own embodiment in pursuing knowledge. Increasingly, our designs take form through scaleless and disembodied processes of computer modeling, and we draw inspiration from images without context gathered haphazardly from the internet. The world’s material and spatial qualities constantly escape and exceed the conceptual confines we construct, but with the body denied as a means for understanding, material presence is nonsensical excess. We need to understand, however, that every conceptual thought and rational instrument we possess springs from our embodiment.

There are many compelling reasons for corporeal reengagement. Among them are systemic modern (and now postmodern) alienation from others and from the earth, the dissatisfying and passive consumerism of the information age, and widespread despoilment of the material environment due to our wish for mastery over it. Reengagement will require living and thinking in the body and allowing embodied experience to become a source of both knowledge and ethics.

An architecture that celebrates multi-sensory involvement, offers different amounts of detail to the view at different distances, and gives careful attention to evanescent qualities of light, shadow, and color stresses corporeal engagement and recognizes the primacy of our connections with the material world.

When used with the right questions in mind, even information technology contains within itself the seeds for collaboration with embodied knowledge. As we seek to broaden architectural pedagogy from the act of training architects to the wider and more societally integrated aim of teaching architecture, we have an opportunity to explore corporeal engagement not only as a basis for architectural analysis and design, but also as a model for intimate and meaningful relationship with the larger world.

**Embodied Perception**

French phenomenologist Maurice Merleau-Ponty offers a model for interacting with the world that subverts rational attempts to short-circuit the knowledge we gain by corporeal experience. He offers embodied perception as the basis for interaction wherein we, as open and receptive subjects, are continually transformed and create from within this constantly regenerative state.

Within the fluxing web of interrelationships he calls the *Flesh*, we continually redefine ourselves by relating to the world around us. We do so on the basis of intercorporeity—that is, our material likeness to (and thus kinship with) the world. When thinking from the body, we act with mind and body in concert from a condition of immersion. In this model, we are open circuits, completed in sensory contact with the world, and this relationship is not one we can fully control.

In examining something as simple as a clay bowl, we can see the marks of its daily use and feel the intricacies of its textures. It reflects and absorbs light in the same way as the earth from which it was made. Yet we can never entirely know the bowl, never perceive it completely. From any angle, some of its surfaces are hidden from view, and the inner thickness of its walls is perceptually inaccessible. Any thing or place with which we interact communicates the fundamental interconnectedness of things within the Flesh and the futility of attempting to understand any of them completely.
We engage the world through what Merleau-Ponty terms *carnal adherence*, our flesh bumping against the flesh of the world through sensory and spatial interaction. In his reciprocal structuring of the world, our senses complement the sensuous: our eyes are the obverse of visual things as our hands and bodies are the obverse of material things, just as our moving bodies are complements to the spatiality of the world.

Our embodied existence thus complements and responds to the fundamental qualities of architecture. Architecture is at its heart material and spatial, and we interact with it through embodied existence that intertwines movement, vision, touch, hearing, and thermal and pressure sensitivity. Carnal adherence happens body to body, and not through the intellectual grasping of the mind. In opening ourselves to the sensuousness and spatiality of architecture, we can grasp the integrally experienced moment resting beneath the mind-body split.

Perception, then, is an exchange between sentient and sensible, an unselfconscious “letting be,” an openness to the world. We do not possess what we sense, but we “dispossess … ourselves in favour of it.” Paradoxically, in losing ourselves we also find ourselves.

The intersubjective experience and design of architecture are both self-exploration and exploration of the connective structure of the world, as we sense our relational existence within a larger whole of which we are an integral part. Perception in general, and perception of architecture in particular, is “flesh in touch with itself.” Thus, in experiencing and designing architecture with attention to embodied perception, we find a means for self-realization and a ground for ethical awareness based in empathetic connection.

**Sensuous Entanglements**

In perceiving, the body becomes “a set of colors and surfaces inhabited by a touch, a vision.” This description calls to mind an experience of architecture wherein we become so lost in the colors or textures of a place that we become entangled with them, feeling their sharpness, smoothness, vastness, or indeterminacy in the depths of our being.

We can feel the immovable density of a stone pillar. Our spirits expand in a windowed tower and contract in a confined, cellular space. Our bodies pick up the rhythm of a colonnade, and our eyes arrest and fix on a central focal point. In highly attuned perception, our body and mind go out to the perceived, which in turn seems to rush forward to meet us in our own interior. In this unselfconscious and seamless intercourse with the world, we exist in a state of *intersubjectivity*, where outward-directed relationship subsumes any tendency toward isolation. With an attitude of openness, “the mind goes out to wander” among perceived things in a non-appropriative state of immersion that contrasts with the instrumentalizing tendencies of modernism.

To Merleau-Ponty, phenomena must be experienced—“taken up…, melded with the body and lived”—rather than imagined or “merely thought about,” and our experiences take place for the most part precognitively, with us unselfconsciously immersed in a world to which we are sensibly attuned.

Carol Bigwood refers to this immersion as a “silent, noncognitive, intimate bonding of our body” with the world, as when we become perceptually...
lost within the vast blueness of the sky. In her poetic description,

[I] enter into a sensuous rhythm of existence that is already there and that is peculiar to the sky in its blue depths.... My living situation becomes one of blue. I can feel the blue’s profundity and become immersed in it because of a bodily openness that lets the sky pulse through me and, in the same trembling stroke, lets my bodily sensing breathe life into the blue sky. [Now] the sky and myself are only abstract moments of a single incarnate communication, [a] bodily-skyly sensibility that tremulously runs through me and that is neither passively received nor actively willed....

In such experiences, we open to the perceived world to the point of losing our perceptual exteriority and gain the possibility of being transformed by the encounter. In sensing, our boundaries become porous and indeterminate as odors inhabit our noses and lungs, sounds vibrate through the surfaces of our eardrums, and sights play upside down on our retinal walls.

We exist in our fingertips as they touch architectural surfaces. We exist in our skin as it responds to temperature changes. We exist through our ears, sensing solidity, hollowness, vastness, and closeness through sound reflection. We exist in our kinaesthetic bodies, moving from one space to the next. We exist in our eyes as they take in the visual qualities of the space. In all these ways the mind goes out to wander among things, entwining our perceptive body with the world.

**Architecture's Sensuousness**

This focus on relationship inverts Descartes’s categories of primary and secondary qualities. In Cartesian representation, form and outline are primary, constant qualities that we can grasp and hold conceptually, opposed to secondary qualities such as color, which are constantly in flux.

But in a world whose most fundamental characteristic is its fluxing relationships, these “secondary” qualities become central. Intersubjective perception of architecture always exceeds intellection and vision, for architecture’s sensuousness espouses our vision, touch, hearing, smell, skin senses, kinaesthetic and proprioceptive senses (movement). With this enveloping of our total sensing bodies, architecture encourages intersubjectivity at its most fundamental level, and it is imperative that we teach designers to create with embodiment in mind.

Architectural design techniques and tools, in helping designers identify functional requirements and adjacencies, organize structure, compose elevations, and orchestrate plan sequences, are essential to the design process, which must pull together many complex threads into an understandable whole. The designer, however, easily loses sight of any qualities that are difficult to represent and manipulate using the given tools.

Plans, sections, physical models, and perspectival virtual models excel in working with Descartes’s primary qualities, giving us the means to manipulate solid and void, structural grids, dimensions and proportions, and anything measurable and exact, including the movement of sunlight. But they fail utterly in communicating the perception-dependent secondary qualities central to corporeal engagement.

Thus it is important to retain these qualities in our intentions and imagination. In an architectural drawing, it is easy to represent the elements of a door—its sill, jamb, thickness, and swing—but virtually impossible to render the walking-through experience. This common experience is indelibly etched within the body of every designer, but few choose to access this corporeal knowledge when pursuing a design.

Our students work in the unselfconscious state that characterizes intersubjectivity, becoming lost in the space of their emerging designs. For this reason, we must make sure that the emerging space takes the body and the sensuous world into account. Creating a plan or section drawing that includes neither the site nor the human body encourages designers to place and size a window based on graphic concerns such as geometric composition.

Working in elevation expands this tendency exponentially, because even the representation of space is absent in its focus on wall surface as object. Computer modeling introduces the capability of viewing emerging designs perspectively but, with its virtually limitless depth, it aggravates the tendency for the designer’s mind to “go out to wander” no further than the confines of the screen and the illusive depth portrayed there.
Designing for Embodied Context

We must teach our students to position themselves both temporally and spatially beyond the confines of the drawing sheet or computer screen. As designers, they need to develop an intimate relationship not with the world of the page or screen, nor even with the forms and surfaces portrayed on them, but with the potential corporeal and multi-sensory experience of the emerging spaces.

What does the window’s frame feel like to the hand? How does it catch the light? How does the light entering through the window heighten or dim our perception of the interior space of the room? How is the same window perceived from the outside, in relationship with the mass and voids of the larger façade, as one walks toward it? How do surrounding trees or buildings alter the experience? In short, what is the embodied context of the window?

No amount of axonometry will answer these questions, and even perspectival representations will be unequal to the task without the designer imaginatively inhabiting the created space and focusing on intentions for the experience of spatial qualities. In asking these questions, the designer considers what the experience will be like for the future inhabitants of a design. Such engagement allows the architect to design for the intimate experience of space rather than simply providing its empty, aesthetic container.

In *Phenomenology of Perception*, Merleau-Ponty writes of the infinitesimal lag between our experience of a thing and our conceptualization of it. Intersubjective experience thrives within this interval, which designers can draw out by avoiding easy intellectual consumption of their designs through vision or language.

Elaine Scarry contends that language reaches its limits when confronted with the profoundly abstract or the profoundly concrete. Architecture’s immediacy stems from its profound concreteness, its conceptually inaccessible materiality and spatiality that we experience through moving and sensing. Secondary qualities of light and surface are often resistant to language in a way that shape and symbolism are not. Repetition and abstraction allow the architectural surface to become background to a foreground of light and shadow play, and strong material qualities encourage an intersubjective visual and tactile experience of the architecture rather than a conceptual summing up. If we teach with these aims in mind and let them augment traditional design concerns, we will have a pedagogy of engagement.

The inscrutable materiality and spatiality of architecture will always in some way exceed our intellectual grasp, and architectural pedagogy needs not only to acknowledge this excess, but also to approach architectural design and analysis in ways that draw inspiration from it. Although any experience is ultimately processed and made accessible through the mediation of language, it is the nature of language to eclipse embodied experience.

To counter this tendency, we can teach design from the perspective of engaged sensory interaction—taking into account what it might be like to move through a space while simultaneously seeing, smelling, hearing, and feeling it. We can undertake to draw out the lag before conceptualization by incorporating elements that escape naming, and we can offer designs whose aggressive materiality and complex, lived spaces invite our responsive sensory interaction.

Architecture as Carnal Echo

With the intersubjective emphasis on unselfconscious perception of the world, we might draw the conclusion that the task of architectural representation is perceptual realism. Nothing could be further from the truth, however, and it is important to realize that architectural representation is not meant to be a replica of the world, but a manifestation of embodied creativity.

In “Eye and Mind,” Merleau-Ponty criticizes traditional western philosophy’s idea of art as representation or index, a linguistic icon that calls to mind an idea of the represented thing. This formulation of art ascribes creative power only to the mind.

He proposes instead an idea of painting as carnal echo, a formulation that locates this generative power in the active relationship between human beings and the surrounding world. In this formulation, a painter opens himself or herself up to the world through vision. Through the channel of vision, the
world enters the painter, inhabits the painter’s interior, and mixes with the painter’s carnality—his or her embodied consciousness.

In mixing with the painter until it is no longer clear which is the painter and which is the world, the things of the world achieve a sort of doubling, existing simultaneously in the world and “at the heart of vision.” The resultant mixture of painter and world is then expressed, literally pushed out, back into the world as a physical artifact, a painting.10 The painting’s formative process makes it no sterile representation of things in the world, but progeny, the offspring of our carnal union with the world and the things in it. Painting as carnal echo ascribes generative power not to the mind, but to the body, the cauldron in which the part of the Flesh that is the painter and a visible part outside the painter are combined.

Painting manifests our visual relationship with things in the world, an interactive process of beckoning and interrogation wherein things actively solicit our involvement. In a reciprocal arrangement, a mountain “makes itself seen” while the painter “interrogates it with his gaze.” A painter channels, takes dictation, lives, as Merleau-Ponty puts it, “in fascination” and in profound lack that he or she seeks to remedy.11

This interaction goes to the very heart of being, and painting is an exemplar of the ecstatic process in which, through opening ourselves to the world, we can transcend the traditional western subject-object division. We disappear as finite subjects and become instead a dynamic relationship, transforming the subject-object division into a subject-subject intertwining that is the fundamental characteristic of the Flesh.

Vision is bound up in movement, and spatiality is at the heart of embodiment. It is here that creative activity as Merleau-Ponty envisions it connects with architectural design. Architectural design as carnal echo occurs when, through the channel of multisensory movement, the spatial and material world enters the body of the designer and mixes with his or her embodied consciousness. The progeny of this mixture is architectural design that manifests our embodied experience of space.

It is important to consider architectural expression not as an egoistic act but as openness to the world, as a willingness to let the world give form to the space. Expression has been construed in Cartesianism as externalizing our own thoughts and talents, visiting our genius upon the world. Instead, designed space is the residue of the intertwining of the architect’s carnality and the beckoning world, a cooperative effort between self and world. Rather than viewing architectural composition as a means of using rational and aesthetic principles to order the physical world, an intersubjective approach suggests architectural design as an intimate encounter.

As carnal echo, painting’s power is based neither in language nor in representation. Instead of offering up indexical replicas of its subject matter, painting offers us a much deeper gift, allowing our gaze to be captivated by particular instances of seeing. In the same manner, architectural design broadens and extends our perception of things, layering an “imaginary texture” upon ordinary perception.12 We go out to meet the thing, becoming present to the larger world in a way we never can by merely observing it.

The sensuous experience of space is so immediate and profound that it escapes the realm of language and remains embedded in parts of our bodies that lie outside the conscious mind, in our muscular and cellular memory. When we lose ourselves in spatial experience, we accumulate a deep knowledge that can find its way back out intuitively in architectural design. Many of the unexplainable creative leaps in design may come from this deep level of knowledge, aided by unexpected connections between seemingly unrelated elements of the Flesh.

**Making Imaginative Connections**

The architect’s way of experiencing the world reveals connections or likenesses between things not readily apprehended by a mere observer, as when an abrupt turn in a stair recalls or suggests the qualities of a mountain path or a circuitous alley. As carnal echo, the act of design brings these relationships to light, as aspects of a spatial experience call forth recollections or imagination of other experiences that are seemingly unrelated. The promiscuity, or wanton intercourse, among perceived things leads us to recognize the resemblances between them, to
posit analogies, to make the imaginative connections that energize architectural design.

The visual references of post-modern architecture miss the point because they depend more on linguistic reference than on experiential likeness, which is so often independent of form and outline. Experiential likeness has more to do with secondary qualities or the potential for movement around an object or within a place, rather than with its form. For example, the twisting circulation paths of the Palace of Minos reiterate the circuitous navigation through the mountainous Cretan landscape without restating the landscape’s form.

Abstraction in architectural design, which may at first seem to divorce the expression of a thing or place from its likeness, actually can heighten experiential likeness as it reveals aspects that intertwine with corporeal experience. Such abstraction may involve color, texture, proportion, density, and spatial relationships. For instance, reflected light or the color of a wall surface may present likeness to the color of the sunset in a more powerful way than a mural representation of the sunset could achieve. It allows likeness to flourish with less interference from “realistic” representation.

Given something nameable to focus on, our tendency is always to allow symbolism to override raw perception, and corporeal engagement can be eroded by a rush to conceptualization in designs that rely too heavily on linguistic meaning. Alternatively, a designer can choose to express the qualities of embodied experience. For example, a designer may create a place that reproduces a Greek temple by copying its orders and entablature. Conversely, he or she may look beyond the temple’s form to ferret out its experiential qualities and design a place that interacts with the moving sun in the same poetic way as the Parthenon’s fluted columns.

A designer can lay out a building as a regular or irregular geometric composition, or can consciously express the way geometry interacts with a moving body. He or she can set out a visual tableau or design a visual and spatial sequence that changes as we move alongside or toward it. The designer can display a building pictorially to the gaze or subvert the gaze with a series of oblique views, bent axes, and changing horizons. He or she can represent through visual icons or allow our imagination to exploit the tolerance of a thing’s resemblance.

Even though it is the nature of language to eclipse corporeal experience, language is irrevocably present in the act of design. The world’s intelligibility unfolds through language as our bodies encode and then decode the world’s meaningful structure. Meaning exists within the Flesh and within the body, and, although it must “detach itself” from the body to attach itself to language, it stems from the Flesh in the same way as embodied experience. Language does not exist apart from the world but derives from the world. It can never displace the things it purports to represent, but it too is a carnal echo that relates the body and the larger world.

Architectural equivalents to language include geometry, proportion, and formal composition. These are mental/mathematical constructions that allow us to avoid considering embodied experience in design by providing formulaic guidelines for laying out space and surfaces. Yet these conceptions relate to the embodied experience of qualities such as rhythm, regularity, and repetition in spatial intervals and enclosure.

We eventually do layer meaning, through language, onto every experience, but the deepest meaning of any intersubjective encounter is simply that we have encountered. And the encounter is never more evident than when we are asking questions of a material, a site, or a space through playful, open-ended exploration.

**Lived Depth**

Merleau-Ponty discusses space through the phenomenon of lived depth. He criticizes perspective drawing, which positions us “always on the hither side of depth” and axonometric projection, which places us always “beyond it.” From a static perspectival point of view, we see depth collapsed into nothingness, signaled by overlapped figures; axonometrically we see it from everywhere at once, signaled by floating objects that relate neither to us nor to each other. Lived depth stems from the thickness of space as played out in relationship with the “null point” of the body, the sum of which both perspective drawing and axonometric projection fail to acknowledge.
In an intersubjective relationship with the world, the body is the origin point of spatiality, irrevocably altering space by its location and movement within it. We are immersed in space, which plays out in relationship to our bodies, and few things reveal this relationship as thoroughly as architecture. In experiencing a place, the sensuous elements of architecture along with the space, air, and light between the perceiver and the perceived are active—charged, thick with relationship. Surfaces open up and forms realign as we move perceptively through space. In this relational structuring of space, form and outline—indeed, all static aspects of architecture—become secondary, subsumed in a primary, enveloping spatial relationship that encloses and relates the individual elements of a place to the motile participant.

The architect sets out depth as a charged dimension in which our relationship to walls, columns, openings, and materials is ever changing. Although vision and visibility are important aspects of experiencing architecture, they are swallowed up by the whole-body experiences of moving, smelling, hearing, and feeling, and vision itself is transformed by the changing perspectives experienced through motion.

Virtual modeling offers the possibility of walkthrough simulations in which the designer can “move” perspectively through a sequence of spaces in an emerging design. This capability responds to the phenomenon of the “null point” of the body by continually shifting orientation and vanishing points as the virtual traveler moves along a linear path or pivots in space. Merleau-Ponty’s frustration at being trapped on the “hither side” of depth seems to be answered here, as overlapped figures separate to allow us to approach and pass through. Movement is part of the experience, causing elements to realign and alter visually in relation to other elements.

The walk-through fails only in its inability to effectively portray secondary qualities and the charged thickness of the air. Computer modeling software depicts the measurable Cartesian primary qualities of form, edge, dimension, and distance. It offers palettes of color and texture, but their middling degree of realism offers too much detail for successful abstraction and too little for perceptual credibility. Nor can it simulate a multi-sensory, whole-body experience; instead, the experience is entirely visual. Furthermore, the visual experience of the virtual walk-through lacks the breadth of focus and peripheral vision of the embodied eye.

**Engaging Digital Technology**

As is the case with more traditional design tools, the capabilities of information technology are decidedly mixed. The computer projects images; it does not reflect conditions. It allows designers to use animation yet fails to animate the space or experience. The computer can show important solid-void relationships of a building but can tell us nothing about the echo of footsteps. It can calculate structural loads but cannot represent the physically and psychologically cold feeling of a concrete column. It can map sunlight across the surfaces of a space over the course of a day or a year but cannot capture the accompanying subtle changes in color and warmth.

The shortcomings of digital representation arise from its tendencies toward short-circuiting. First, digital drawing short-circuits and reorients the embodied experience of drawing by hand. In hand
drawing, the body inhabits the image as the hand and arm make the same movements to record a thing’s image as they would make to caress the surface or outline of the thing itself.

In contrast, the processes of computer drawing, based in binary polarities and language operations, derive from a logic of object manipulation rather than engaged perception and thus are corporeally counter-intuitive, placing the body and the intellect at odds.

Furthermore, in hand drawing the line has a certain tolerance as it is being drawn—it can wander slightly, thin or thicken, waver or straighten in response to the non-verbalized intentions of the designer. There is no such tolerance in a digitally drawn line that assumes a menu-derived thickness, lengthens itself to a numerically specified length, and snaps to a virtual grid.

Second, the quickly assumed certainties of digital drawing and designing short-circuit the work of imagining embodied experience. Digital design’s quick formal operations, its limited menu of surface textures, its prejudice toward replication of elements and dimensions, and its orientation around defined edges all provide shortcuts for the difficult and uncertain work of creative design. A student’s digitally-aided design too often gives an appearance of completion that surpasses its depth of thought. As architecture students attempt to get “complete” representation to do the work of imagination, they become spectators rather than participants in their own designs—disengaging and making love, as Kundera characterizes it, like an intellectual.

**An Imaginative Inhabitation**

All forms of architectural representation have the potential to rush design ideas too quickly to certainty, but the embodied act of hand drawing more easily allows the percepts of the body to inform the concepts of the mind. Furthermore, these false certainties are not accidental tendencies of digital drawing but integral to its very nature. They parallel the fascination with quick acquisition and the increasing detachment from experience that characterize all aspects of the information age. Thus architectural pedagogy faces an important challenge to critically enframe the exciting possibilities of the digital age within a larger attitude of corporeal and social engagement.

Used with an attitude of engagement, the computer can become a useful tool for corporeally engaged design. Its changing perspectival views, more accurate in proportion than hand drawing, so easily generated and therefore so much likelier to inform a design, provide the empty container for the designer’s imaginative inhabitation of the emerging space.

Since a designer can quickly make changes without laboriously reworking an entire drawing, virtual modeling encourages experimentation. Within a pedagogical framework of corporeal engagement, a student can critique the false certainties offered by digital modeling. As the designer’s intentions and imagination are layered onto the space of the virtual model, it becomes one of a series of interrelated tools for understanding the experience of the space.

Movement through time and space is arguably our most fundamental mode of interaction with the world, and information technology has irrevocably changed this experience. The
internet collapses time and space, bringing us images instantaneously from around the world. We are at once connected to and disconnected from everything as we google toward a piece of information as if rocketing through a wormhole. The internet imitates the Flesh in an almost uncanny way. Like the Flesh, it is an encompassing milieu in which everything is interconnected. Like the Flesh, it offers continual opportunities for interaction. But it is incorporeal, overwhelmingly visual and language-based, and offers none of the proprioceptive or multisensory components of embodied experience.

**Design Corporeally Based**

The key danger of information technology is its seductive tendency to stand in for embodied experience. We must constantly teach students to question and augment the information it presents. Instead of the near-instantaneous speed of accessing information via computer, we should ask students to concern themselves with the infinitesimal lag between corporeal experience and its conceptualization. We should ask them to occupy themselves with duration rather than rapidity and to open themselves and their designs beyond the intellect. Instead of rushing toward certainty, we should encourage students to dwell enthusiastically in the uncomfortable state of not knowing—long enough to confront and struggle with the problems of making their architecture sensuous, ethical, thoughtful, and humane.

In *The Member of the Wedding*, McCullers does not exhaustively describe the space of Frankie’s experience but rivets our attention to details that reveal her emotional and physical connections with that space and experience. Architectural design and representation can concern themselves with the details that reveal the active presence—the “beckoning”—of material, spatial, and sensuous architecture. Atmospheric, abstracted models can reveal the aggressive color and texture of a wall. Charcoal light studies allow the designer to stop and consider how the movement of light and shadow transforms a space. Gestural, tonal perspectives drawn from a model held close to the designer’s eyes can portray the sensation of being surrounded by the space. Large-scale models can facilitate the designer’s imaginative presence within its emerging spaces.

Even full-scale joints or details can help a designer to better understand the corporeal presence of the design, while collages and watercolors can communicate the sometimes incomprehensible rush of sensation an architectural experience provides. These corporeally based design methods can provide a powerful critique of the way we as teachers and students give form to our ideas.

**An Ethic of Care**

In teaching architecture from the standpoint of sensory and spatial engagement, we provide architecture students with the means to explore the depths of their embodied selves as well as their relationship with the larger world. Moreover, we provide an ethical framework wherein we acknowledge, through our shared corporeity, a fundamental kinship with other people and things. Thus an architectural pedagogy in which we remember embodied experience suggests an ethic of care toward a world in which we see more self than other. It augments electronic connectivity with a connection that engages both mind and body.

Space experienced corporeally is dynamic and interactive in nature. In what may be his only description of architectural space, Merleau-Ponty writes of sunlight reflecting off tiles beneath the surface of a pool to sparkle and dance upon a nearby stand of cypress trees.18 He describes the tiles on the pool floor shimmering through the medium of water and the water’s constantly changing reflection of light onto the nearby trees.

In this space, the play of light and shadow across surfaces takes precedence over the static shapes and proportional relationships of architectural form. The space is animated by trees with their highly textured surfaces and deep pockets of shadow, their position and proportion changing constantly in response to movements of sun and wind. Its reflective tiles are seen through a medium constantly in motion, as the shifting water directs sunlight and reflects images first one place and then another, breaking them into innumerable bits of light and color.
It is just this play of light against surface, along with a host of other secondary qualities, that enlivens any architectural space. Architectural design is a way of engaging the world that springs out of the architect’s embodied fascination with color, light, movement, and space. In becoming absorbed within the creative act of designing architecture, we lose ourselves within the world’s abundance, joining memories of past experiences with our intentions for the designed space’s future inhabitation. Thus, in designing, we lose any sense of a distinct past, present, and future and experience vertical time—“simply being there in the world” in a deeply integrated way.19

Information technology has irrevocably changed the way we engage the world, and with it the way we teach and design architecture. As educators, we must rise to the task of critiquing its imbalances through the corrective lens of embodied experience. We must look beyond the narrow confines of information technology in setting our pedagogical direction.

Positioned at the explosion of the information age, we are poised to develop an architectural pedagogy that draws from embodied experience. If we do so, our students can use technology effectively without being subsumed into its seductive, incorporeal world. Instead of “making love like an intellectual” and designing empty spatial containers, our students can design for an intimate experience of space that engages both body and mind.

Notes
12. Merleau-Ponty, “Eye and Mind,” p. 126. He also states this idea differently, writing that painting gives vision “the imaginary texture of the real” to clothe it within.
17. Merleau-Ponty, “Eye and Mind,” p. 138. We are also inhabited by space, our bodies filled with dynamic cellular processes and atoms made up almost exclusively of space.