ACSA Distinguished Professor

2016-2017 Winner Submission Materials

LISA FINDLEY California College of the Arts

Portfolio in support of nomination

ACSA Distinguished Professor in Scholarship

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This portfolio is submitted as a snapshot of my work about the role of architecture and architects in political, social and cultural change. As a thinker, researcher, writer and educator, I engage issues of spatial politics, political agency, and the symbolic nature, as well as cultural and political ramifications, of an architect's practice and of specific buildings. These investigations extend not only to visual language, design process and cultural context, but also to very specific building practices, materials, costs, sourcing, labor contexts, and so on. This work extends beyond writing to include lectures, panels and serving as a juror and referee.

For ease of navigation, this portfolio of work is divided into three sections: Introduction, Writing Samples and a final section that documents the "ripples" from this work: how it shapes and informs my teaching, how it generates invitations to participate, teach, write, and a snapshot of reviews of the work.

INTRODUCTION

I describe myself as a journalist: a term that, when I began to regularly use it in 1996, disconcerted many of my PhD history/theory colleagues. But I use this term deliberately.

My grandfather was an old-fashioned newspaper man who worked for the Associated Press during the Great Depression and World War II, then inherited from my great-grandfather a stable of small town lowa newspapers. During summer visits as a child, while my sister and cousins played outside, I hung out with him in his messy, rushed, and ink-scented world. One humid August afternoon, as we sat in his cluttered office at the Webster City Daily Freeman Journal, I asked him why he had spent his life as a journalist. As I played with the type in my great-grandfather's type case and the mammoth printing press roared in the basement, Granddad squinted at me through the smoke of his pipe and said simply; "Journalism is writing history on the fly".

These words were not his own. Indeed, I have found they are a kind of mantra among journalists of all stripes. They efficiently define the work of the journalist as exciting, tricky, and important: writing quickly for the historical record, but without knowledge of what might follow.

Journalism about architecture, then, is just-in-time writing that does not have the luxury of hindsight. It takes on ideas beyond the standard reporting seen in most architectural magazines today: the old "what, when, where, why, who" formula supplemented by program requirements, square footages, physical attributes and so on. Journalism adds a specific framing, a particular point of view driven by the journalist's interests, and, indeed, actual criticism. It's conclusions may sometimes turn out to be factually wrong, or just plain wrongheaded, but it plays a critical role in architectural history, and in our discipline. Historians of practices, architects, projects, types, styles and topics routinely draw upon journals and essays to help flesh out the cultural context and response of contemporaries to their subject.

At this point my once-skeptical colleagues have become convinced of the value of my writing practice. In part this is because of the way I have integrated the work into my studio and seminar teaching. In part it is due to the topics I engage entering the mainstream. And, of course it helps that the type of writing practice I began pursuing twenty years ago is now more common in our discipline as it expands its interests, redefines its territory and multiplies its platforms for discussion.

WRITING PRACTICE

How can architects and architecture be productively engaged in social change? What are the opportunities, challenges and limits for such engagement by a discipline that is inherently bound up in systems of power? Are there rich possibilities in the very aspects of producing architecture that seem to limit us? These questions trouble not only me, but also our students, who are facing being architects in an environmentally, socially, and politically precarious world, fueled by a mind-numbing gap between those have and those who do not. My writing practice seeks to formulate some kind of answers to these questions. As such, there are two broad major threads of writing: **Building Change** and **Local Modernisms**.

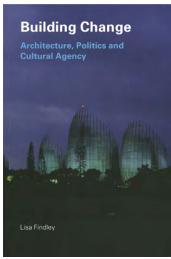
The first set of threads is most clearly laid out in my book *Building Change: Architecture, Politics and Cultural Agency* (Routledge, 2005). It has been adopted as course readings in many schools and continues to generate invitations to lecture and pursue further writing. This summer (2016), Routledge has invited me to propose a second edition.

South Africa is a particularly rich locale for the Building **Change** research. One of the case studies in the Building Change book was the Red Location Museum in New Brighton, South Africa. However, my research, interviews, building visits and conversations led me to numerous other buildings and practices, contexts and this has yielded a number of recent essays: various versions of the essay "Red and Gold: A Tale of Two Apartheid Museums", have been published, including in Places Journal. Places also commissioned the essay "South Africa: From Township to Town", author Liz Ogbu). After the success of this collaboration, Liz Ogbu and I co-authored an invited essay, "Becoming Visible: Appropriating the Spaces of Apartheid South Africa", that was published in the Routledge book Occupation, Consumina Architecture: On the Appropriation and Interpretation of Buildings.

https://placesjournal.org/article/red-and-gold-a-tale-of-two-apartheid-museums/

https://placesjournal.org/article/south-africa-from-township-to-town/.

My writing on the Red Location Museum also drew the attention of Field Architecture, who designed the Ubuntu Education Fund buildings in a former township close to Red Location. The architects invited me to contribute an essay, "Realms of Impact: Ubuntu and the Politics of Space", to their book about the project.



"Building Change provides a vision of a revitalized role for architecture as a critical cultural and spatial practice....Findley finds that within the agency of architecture itself, there are numerous opportunities and strategies to actively support the goals of social change"

Building Change cover blurb





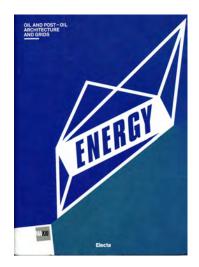
A recent sabbatical allowed me to begin to focus on the second set of threads: Local Modernisms. This work builds on the Building Change issues and themes, and on some papers I wrote in 2000 on architecture as a cultural tool to combat the homogenization of globalization. The new research focuses these early ideas to look at specific contemporary architects and architectural practices outside of Europe and North America. These architects seek robust locally derived building technologies and formal, spatial and contextual building strategies to form a response to the cultural and physical homogenization and the capital-intensive technologies of globalized practice. This work is situated historically and theoretically as well as physically, and will lead, eventually, to a book. The short form proposal for this book, Radical Local: Architectural Resistance to Globalization (working title), is under review by Bloomsbury Press and Routledge Press.

To date, I have published two essays that begin to address this localization. The first of these is an essay on "Productive Public", a project by South African architect Jo Noero in an exhibition titled *Energy: Oil and Post-Oil Architecture and Grids* at MAXXI_The National Museum of XXI Century Art in Rome. (2013)

The other essay, "Materia: the Subject is Material", is a profile of a small a Mexico-city based architectural practice, Materia. The essay is part of a bilingual book, published by Arquine Press, about the strategies, approaches and interests of the practice. The book was launched by a panel discussion hosted at the Tamayo Museum in Mexico City in 2014.

The following pages are included to give a glimpse of my writing:

- Introduction from Building Change
- Last pages from Building Change
- The full text of the catalog essay, "Productive Public"
- First pages of essay on "Materia"





After twenty-two hours in transit it was hard to tell if the apparition before me Rising out of the dense vegetation was a line of giant gently curving forms eaching tapering fingers toward the deepening sky. I had never seen a building that looked like this. It was like a dream of a distant planet, or a glimpse of a different future. And yet, its uncanny beauty persisted as I approached and only became muted as I entered and began to wander through the exhibition ooms with the crowd of other awestruck visitors. Something about the place in the tropical twilight was real or a figment of my jet-lagged imagination. made everyone speak quietly.

It was June 1998, and the first night of the public opening of the New Caledonia. I had just arrived via Sydney from the US to write about the building for Architecture magazine. After a quick stop at my hotel to change, I had hurried to the site for my first look at this latest project by the Renzo Piano Building Workshop. While I had seen photographs of the building before enjoying and joining in the bewildered and delighted reactions of the other visitors. Heft with that immense happiness and satisfaction an architect feels much-anticipated Tiibacu Cultural Centre for the indigenous Kanak people of coming, I was not fully prepared for its reality. That first evening I turned off my critic's voice - there were several days left for that - and simply wandered, after experiencing a masterfully done building.

The following morning I was met at my hotel by William Vassal, the young French architect from Piano's office who had spent the previous three rears overseeing the construction of the project. He had proposed an agenda villages and traditional buildings that served as important inspirations for the for the day that left the Cultural Centre for last, after visits to the countryside, project. This was, for me, a perfect introduction. My interests in architecture, and as an architect, rest heavily on the relationship of buildings to culture, politics and landscape.

Hours later, after an enthusiastic introduction to the history and culture of the Kanak people that included lessons at deciphering the Kanak landscape, stops at three rural Kanak villages and a seaside lunch of traditional Kanak tood, William and I returned to the Centre While I had read several things about the history of the French colonization of the Kanak people before

Introduction

embarking on this assignment, I saw the building differently now that William had given it a context within the specifics of the experiences and perspectives poetic, but that it was also a glimpse of an expanded possible future for of the Kanak. That afternoon, sitting on the shady terrace of the Centre's cafe, I realized that this building was not only technically inventive and formally Architecture as a whole.

invented by those in power. Yet, here in remote New Caledonia was a world resolved. While the particular history of the project explains how the building that the processes and formal qualities of space are a location and indicator of nomic dynamics. It is obvious to apply this thinking to the field of architecture The discipline of Architecture has, for most of its history, been at the service of those in power, Indeed, it might even be argued that it was class building, by one of the planet's premier architectural practices, for the indigenous people who only received the right to vote in this still Frenchcontrolled island group in 1957. The entire project, like its context, was fraught with complex tensions, both cultural and political; evolving, but far from came to be, I wondered how that history was also tied to fast-paced and proound changes in the larger political and cultural arena of the globe - changes most often explored through the lenses of geography, anthropology, and culural and postcolonial studies. Recent work in these fields has emphasized power relationships just as surely as are historical events and social and ecowhere it has the potential to be more than simply an analytical tool. How might it also be applied to the process of design and the making of buildings - single buildings in particular circumstances?

the Centre. This was possible in part due to the shifting location of power in It also struck me that while architects are certainly tangled in the In the case of the Tiibaou Cultural Centre, the Renzo Piano Building Workshop (RPBW) had used its position, and the cultural power and prerogatives of the architect, to support the progressive social change agenda of the Kanak and aging the power, abilities and production of the architect to enhance the participants in New Caledonia and in the Pacific region. It made them visible web of power, the entanglement has both positive and negative implications. New Caledonia. The RPBW could certainly have made a building that essentally responded to the French government (who was paying for the building) is the client, but they did not. Instead, they made the Centre their client, levercultural agency of the Kanak. In this way, the building became a significant addition to the emergence of the Kanak as serious and important cultural in a profoundly new way - a way understood in a global context and in the global language of architecture.

terrace in the cooling sea breeze, framed my review of the Tilbaou Cultural These realizations, jotted in my notebook while sitting on the Centre for Architecture magazine. However, it was clear that an abbreviated

piece for a professionally oriented architecture magazine could never contain the complexity of this bigger picture. Clearly these ideas needed further exploration in order to understand the implications of this unique project.

Within months of leaving New Caledonia, I encountered two other architectural projects that seemed to me caught up in similar circumstances of evolving political and cultural agency: the Uluru-Kata Tjura Cultural Centre for the Anangu people of the central desert of Australia and the Museum of Struggle, a project memorializing the struggle against apartheid in South Africa. While profoundly different in their particulars, both projects contain programs that address a range of unresolved cultural and historical tensions. The architects of each project took on these tensions as an essential part of their approach and solution, using their position as architects to support the emergence of previously marginalized people. And, in both cases, the resulting building is simultaneously bold and modest and defies format expectations. At the same time, both projects raise unique issues related to the question of cultural agency and its relationship to architecture. These projects, along with the Tjibaou Cultural Centre, formed the beginnings of this investigation.

Yet, it seemed to me that something was missing from the range of case studies. I wondered how a project on the margins of power, but where race, ethnicity, and a cultural gap between architect and client were not so prevalent, might stack up against the three already selected. I wanted to use such a project to understand how the dynamics of building within a climate of cultural and political tension would change if race and colonial history were not pivotal to the reason for the project. The new office for the Southern Poverty Law Center is an ideal project in this sense. The non-profit SPLC and its work are supported by a huge loyal coalition of small donors, yet it pursues its national agenda in the often-hostile local environment of Montgomery.

Spatial transformation and social change are at the heart of this book: architecture, as a vital spatial practice, has the potential to be a key player in the re-calibration of space when power shifts. This may not be obvious since architecture, by virtue of its patronage and resource requirements, is intimately entangled with political, economic, social and cultural power structures and their widespread strategies for encoding that power onto physical space at multiple scales. This book begins with a look at this intimate relationship between built physical space and power. It looks at the spatial strategies those in power use, as well as the historical and cultural conditions that have justified such strategies. The discussion then returns to architecture and architects and, ultimately, to detailed studies of the four architectural projects. These projects demonstrate that, in this world of shifting power dynamics, architects do not have to be servants to any cultural hegemony. They can, through their role as imaginative producers of culture,

participate actively and constructively in the reallocation of cultural agency and nower.

Architecture, like no other form of cultural production, can manifest renewed cultural agency by making it spatial, material, present and, in that sense, undeniable. This is a sobering responsibility. While many architectural projects may happen in less dramatic and less tense circumstances than those in this book, there are often opportunities for architects to leverage their production for social change and the goals of a larger cultural good. This provides a new arena for architects willing to use their own cultural power strategically and, perhaps more importantly, it suggests a revitalized role for architecture as a proactive cultural practice.

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edge where the building meets the sky. At the Centre, the vertical ends of the silver-gray glulams that make up the cases meet the sky in a feathered edge—one that transforms from strong silhouettes when backlit to fuzzy when lit from in front. This front light condition makes the ends appear to melt into the bright sky. Piano seems delighted with this uncanny effect. He has since pulled it into two high-rise projects, where the edge of the building against the sky is more dramatically observed: Aurora Place in Sydney [2001] and the upcoming building for the New Yark Times in New York.

Piano happily admits to this carrying over of ideas, strategies and technologies from project to project. The work of the Building Workshop shows, however, that this carry-over is not the conservative practice it might suggest. The startling forms, tectonic exploration, and strategy in relationship to the ground of the Tijbaou Cultural Centre would not have been possible without what Piano thinks of as one of architecture's central allures; that each project presents a set of unique opportunities. "Architecture is an adventure. It is a challenge to measure one's self with each new problem" (Piano 2002, interview). Working with the Kanak in New Caledonia, the problem was much larger than a set of spatial and technical needs. Here Piano discovered an additional set of inspirations and opportunities in the political and cultural history and tensions of the project.

For Greg Burgess, the lessons of the Uluru-Kata Tjuţa Cultural Centre are part of an ongoing exploration of a process, geometry and materiality for cultural buildings for Aboriginal people. This process was begun in previous projects, most norably the Brambuk Living Cultural Centre for the five Aboriginal communities in the southeastern part of Australia (Victoria). However, Burgess has also used these same geometries and methods for high-end single family houses. The Cultural Centre gave him a chance to apply these in collaboration with the Agangu who brought an overarching site sensibility to inform the decisions about form and space.

The founding attorneys of the SPLC, Joseph Levin and Morris Dees, seem to have infected the brand new practice of Erdy McHenry Architecture with boldness. A close look at the evolution of the building design shows that each time the architects were sent back to the drawing board the design became clearer, more focused and much more contemporary. The confident aesthetic that emerged continues on into the other buildings the firm is designing.

Building Change

Just as architecture fixes materials in time and space, it also fixes meaning. This is one of the most difficult parts of the projects in the previous chapters.

When ongoing political and cultural tensions are part of what must be translated in a building through architecture, as with all four of these projects, a critical problem arises: the architect is responding to a moment in the evolution of dynamic relationships between groups of people with different visions of what the future is to be. While the siting of a building, its materials and their organization and the built space and form may have a particular meaning at the time they are conceived, that meaning may alter rapidly as circumstances change. These are impossible to predict. Despite this, the architect must, by fact of the physical reality of architecture, make decisions. In such cases, the architect exercises agency by selecting which future he or she hopes for, supports, or, perhaps, believes is most likely.

Along with changes in meaning, buildings also change at the more straightforward and pragmatic level of space and programmatic needs. This is difficult even in the most stable of institutions and contexts; however, in the situations where a building is involved in a charged social or cultural situation, or being made for an entirely new institution, change is inevitable. While the change itself is predictable, what the change will entail or how soon it will be needed is not. So, while certain kinds of specificity are crucial in making such buildings work culturally, the more specific a space is for its function, the lass likely it is to be easily adapted to another use.

Each of the buildings in this book must be thought about from these perspectives of change. For instance, while the technological experimentation in the Tibaou Cultural Centre appeared advanced in 1998 when the building opened, in thirty years' time it may look dated. This means that the optimistic freshness of the building would be lost, leaving the visitor to instead wish for the innocence of the time when the project was made. On the other hand, an alternative possible future would be that in thirty years' time the Centre is an established and mainstream institution engrained in the Kanaky (the likely new name for post-independence New Caledonia) national psyche. This scenario would unfold with the scheduled independence from France laid out in the Noumea Accord of 1998.

However, we know that building construction is a very conservative practice. It usually takes years for any new technology to enter common and routine use. In the relatively remote circumstance of New Caledonia, where concrete frame with terra cotta block infill is the standard construction method, this may be particularly true. Indeed, it is likely the Centre will retain, as a handful of buildings per decade do, its cultural and visual freshness despite continually evolving architectural investigations and the huge number of buildings that will adopt the building's technology or be inspired by it.²

This hope for a future where the culture represented in the Tibaou Cultural Centre is no longer isolated and separated from the mainstream of national culture is also an inherent hope for the Ulvgu-Kata Tjuga Cultural

present. Instead, they should simply be routinely present, visible, respected and effective within their places. Such a shift would change significantly the sent, cease to be exotic in their locales, and instead be seen as obvious and cultures will any longer need a designated place where they can be explicitly meaning of the buildings. They would, like the indigenous people they repre-Centre. The political intention would be that neither the Kanak nor the Agangu integral parts of their place.

nel working with the $\Delta_{\underline{\Omega}}$ angu. The multipurpose room became the Winkiku Exhibition space where the Walkatjara Art Centre artists work, display and sell their painted ceramics. The now unused dance ground changing rooms have become storage and offices for the Walkatjara Art Centre. Other changes will no doubt occur as the Δ_Ω angu need the Centre to be different things at different times in the evolution of their growing agency in the context of the Park the toilets were moved to separate structures outside of the building, with the space they occupied being remodeled to accommodate Park Service person-In the meantime, however, the Δ_Ω angu struggle with how to most effectively use the Uluru-Kata Tjura Cultural Centre. Almost as soon as construction was completed, uses of spaces were changed. Within a few years, and the tourists.

apartheid architecture. Or it may become a transitional architecture that bridges from the rough and tumble "make-do" aesthetic of the townships to another sensibility about making public buildings in the country. Or it may get fondly set aside as a lively example of post-apartheid township architecture by globalized architectural sensibilities. Any of these are possible futures as the meaning of the Museum changes. This meaning, like the meanings of the other buildings here, is intimately tied to the political, cultural and economic The Museum of Struggle, with its saw-tooth factory roof and its humble materials may remain a kind of prototype of South African postfuture of its place.

primary exhibit space, with its twelve memory boxes, is very specific in certain conceptualized from its earliest design as a place of change, it may be a place ways: the diffused south light coming from the skylights above, and the fixed allowing for their content to be adjusted and changed as history evolves and as narios when they were designing the building. Since the Museum has been of meaningful dialog about the past and present for decades to come. The column and memory box grids. However, these spaces are otherwise neutral, Noero Wolff Architects were clearly aware of these possible sce-

ing nor the Center's agenda are seen as confrontational to the mainstream culture of Montgomery. In such a future, the elaborate security needs of the building would be obsolete, and the funneled entry and small front door would As for the SPLC, they look forward to a time when neither the build-

Archivecture and Change

nappily have to be redesigned to be more welcoming. This would be a triumph for the Center and its aspirations for the social, political and cultural future of

clients. For these buildings demonstrate that the ongoing redistribution of the cultural power around the world has alrered who has the right to express themselves in space through the products of contemporary architecture. They show that when a building project is explicitly embedded in a process of political and cultural change, it demands a heightened kind of engagement by its architects. And the resulting buildings remind us that architects and architecture can contribute actively and positively to social change. This contribution is possible precisely because buildings are material objects of cultural production For each of these projects, the future expansion and integration of the cultural agency of the client may significantly shift the meaning of the building, and perhaps many of its uses. However, despite the implications for these changes on the architecture, such changes are a welcome thing for the that are both pragmatic and symbolic.

These buildings also show that David Harvey, Iain Low and Kim through the making of individual buildings, to engage in explicit political, cultural and social agendas. As Peter Zumthor suggests in the quote that opens this chapter, all architecture is, by definition, change. It is an essential participant in the necessary reorganization of the physical world to match changes in the political world. Because of this, it is urgent that architects recognize their own agency, and the powers they serve in the way they deploy it. As demonstrated by the architects who designed the projects in this book, this agency is not fixed in its relationship to power. Since architecture is already based upon the assumption of change, it is to a large extent up to the architect to have the Dovey - authors drawn upon in the first chapter - were right in their assertion As such it becomes pivotal when contemplating the possibilities of architects, courage and imagination to be explicit about what power agenda their agency that the human imagination is the key to both architecture and cultural change.

ity of focused daily effort sustained over long stretches of time. It is an underdog's fight against the basic laws of physics, against both inertia and entropy. Toward the end of his life, even the great master of modernism recognized the simultaneous poetry and humility in this. Le Corbusier said, when Architects know that to make good work is not a matter of instantaneous insight, or raw talent, or good luck - though all of these may be useful at some point. Instead, architecture is an optimistic and, yes, imaginative activaccepting the AIA Gold Medal in 1961;

out of a multitude of little things, and the little things follow one There is not a breath of victory in daily life. Great things are made

8

upon another every day from moming till night.... Daily life is a matter of perseverance, courage, modesty and hardships.³

In this daily-ness and in the spatial reality and cultural agency of architecture, lies the power of buildings to participate in political and social change. This power is found in re-imagining the ordinary activities of architecture and in leveraging these activities so that the changes they produce are consciously in service of a progressive agenda. While this potential for architecture is easier to see in the projects in this book, it does not only exist at a heroic scale or in the process of working on an explicitly political or cultural building. When actively and imaginatively engaged, every architectural project offers an opportunity to build change.

Appendix

Project Credits

Tjibaou Cultural Centre

lient

Agency for the Development of Kanak Culture (Agence pour le Développement de la Culture Kanak (ADCK)) (www.adck.nc)

Architects

Renzo Piano Building Workshop (www.rpbw.com): Renzo Piano (principal); Paul Vincent (associate-in-charge): William Vassal (architect-on-site), Antoine Chaaya, Alain Galissian, Marie Henry, Charlotte Jackman, Robert Keiser, Gianni Modolo, Joost Moolhiuijzen, Jean Bernard Mothes, Marie Pimmel, Sophie Purnama, Dominique Rat, Anne Hélène Téménidés (design team): Oliver Doizy, Andrea Schultz (modelmakers)

Consultants

Competition Phase (1991), A. Bensa (ethnologist); Desvigne & Dalnoky (land-scaping); Ove Arup & Partners (engineers); GEC Ingénierie (cost control); Peutz & Associés (acoustics); Scène (scenography)

Design Development and Construction Phase (1992–1998): A. Bensa (ethnologist); GEC Ingénierie (cost control), Ove Arup & Pariners (engineers); CSTB (climate control); Agibat MTI (engineers); Scène (scenography); Peutz & Associés (acoustics); Qualinconsult (security); Végétude (landscaping); Intégral R. Baur

General Contractor

Glauser International

one of small scale, evenly owned and distributed, renewable systems. It rejects energy by multinational corporations or nationalized energy consortiums. And it plants edging Hout Bay Harbor. Just 20 kilometers from downtown Cape Town, this exhibition provakes such questions. Just as mobile phones and Wi-Fi have infrastructure for energy delivery, the largest oil reserves or the most advanced South African architect Jo Noero's contribution to the conversation initiated by inspiring and productive models for the energy future of all of us. This future is township of Hangberg, nestled on a slope just above the fisheries processing housing found in most townships; government constructed brick row houses, planet, lies not in inventor's workshops, university labs or petroleum company line, places where almost no one owns a car, places occupied by the 40% of leap-frogged over landline and Ethernel technologies in developing countries, Noero suggests that future energy networks can leap-frog over conventional What if the answer to our energy future, and the future of our climate-affered poor, places where providing energy services does not enhance the bottom the definition of energy as simply conventional fuels. It rejects the control of this now mixed-race community of 25,000 sits at the end of the road on a old workers hostels, a few small concrete block homes, and tightly packed nformal settlement shacks. This density is in stark contrast to the stunning energy science? What if, instead, our energy future is found in unexpected places: places where infrastructure and capital investment are exceedingly compact slice of land. Housing consists of a cross section of the kinds of and commercially controlled energy infrastructure and sources to provide To test this provocative idea, Noero has turned to the small South African research facilities? What if it is not to be found in places with the greatest relies primarily on the ultimate renewable energy: human beings. the world's population that live on less than 1.50 Euros a day?

consumption in the world is The current rate of energy untenable.

addressing new forms of

The free market mechanism also unsustainable, unfair of the global economy is

and unjust.

to find ways of liberating the sustainable energy resource single most renewable and in the world namely human As a counterpoint we seek energy, imagination and

control such as licenses and taxes. We do not support an idea is the informal sector in are free to operate in a spirit massive difficulties, people of untrammelled exchange free from all forms of state chosen to investigate this The model that we have Africa in which, despite creativity.

the freedom of people whilst The area of investigation is a productive Infra-structures at infra-structures are designed has an important rofe to play Cape Town called Hangberg production which in turn will small fishing village outside create autonomous, robust support ways to maximize opportunity and equitable recognising that the state community scales. These possibility of new spettal The project explores the to use locally generated realms embedded with in ensuring exquality of access to resources. both household and and self-sustaining systems of energy communities.

This energy infrastructure obeus nb ways of

indivídual family scale and ar which grows vertically. This locally produced energy as Iving in the world which is the larger community level. in turn offers up new ways well offering up a different way of thinking about a productive public space sustaining at both the both liberating and

Noero Architects productive (re)public

autarchic society - rather we

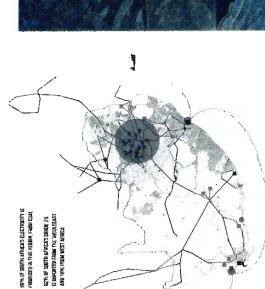
neighborhoods that edge the beach and creep up the flatter valleys a few sweep of Hout Bay and the sprawl of middle class, almost entirely white,

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Like all white South Africans, Noero benefited from apartheid. Unlike most white study of architecture was undertaken with a clear understanding that the field is levels of life was essential to this effort. It required the careful racial classification 1948, the thrust of this flurry of legislation was to secure the political, economic South Africa put into place by the fastidiously racist apartheid regime. Secured and spatial dominance of the tiny white minority while rendering powerless and apartheid government was profoundly unjust, even evil. Noero says there "was the sense of normalcy... And yet, at the time, the sense of impending terror in the country was undeniable." He became politically active quite young and his the nation. Jo Noero was born and came of age in this apartheid South Africa. inextricably involved in the dynamics of power. He was adamant that his work continuing inequalities embedded in the social, economic and spatial fabric of bedroom communities that would serve them and the industrial production of by a series of laws rapidly put into place when the Nationalists took power in As Hangberg is a microcosm of a township. Hout Bay is a microcosm of the planning to ensure a segregated future. Architects and planners were put to invisible the vast non-white majority of the country. Racial segregation at all suburban street patterns with optimal minimum dwellings for the non-white as an architect would not in any way support the apartheid regime. Such a of each person, the breaking apart of mixed-race communities, elaborate schemes of mass relocation, draconian pass laws and carefully wrought South Africans at the time, however, he realized early in his life that the work designing white utopian cities of the future and laying out distant not neutral, that those who design the physical and spatial future are

> South Africa Energy Infrastructure

Hangberg, aerial view ICity of Cape Town Strategic Development information and GIS)

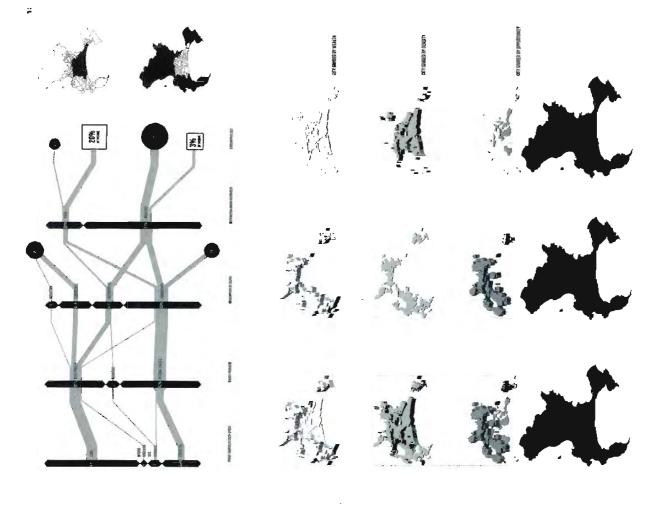




In the early 1980s Noero, along with some of his colleagues, signed a pledge to townships, and also designing township community buildings, modest houses, enrich the lives of those with the least access to conventional forms of societal chapels, administrative buildings and school projects for the diocese - and for for the Transvaal Diocess of the Anglican Church by Desmond Tutu. who later unwavening character developed during this era endures in Noero and in antiand a scattering of commercial buildings. He was also appointed as architect stance was not an easy thing to maintain in the full face of the authorities - if Laureate. This post meant that Noero had the honor of designing churches, optimism about the future. There were no half measures, no middle ground, continues to follow today: an investigation of the potential of architecture to very few shades of gray. The strength of mind, forcefulness of opinion and refuse architectural work from the current government. While dramatically apartheid activists like him across the nation. And a suspicion of those in limiting his access to commissions, this stance set him on the course he became the Anglican Archbishop of South Africa and Nobel Peace Prize power, with power, controlling power (energy?), became second nature. required extreme ethical clarity, daily doses of courage, and an abiding and economic power. During this time, Noero worked for NGOs in the

Inexpensive and readily available, often with prefabricated systems of attachment residents for their self-built homes. Noero speaks passionately about wanting to inventiveness, serious intentions, careful husbanding of every resource (spatial and material) and creative detailing pull the buildings into a entirely new realm. They are lively and surprising, colorful and beautifully made. They have strong spatial and material palette he still taps into today. He admired the creative and Working in the townships in this era, Noero began developing the architectural block and cement board - could be used in beautiful ways. that they could be demonstrate that these modest materials - including corrugated fin, ocncrete township buildings were straightforward activities able to be accomplished by and waterproofing, these materials are locally produced, and readily available. aesthetic - one that mimics without transforming. However, Noero's format resourceful uses of recycled and mundane materials procured by township Their adoption also helps to ensure that maintenance and repair to Nosro's The use of this material palette could easily have led to a "poverty chic" forms that reflect the strength of Noero's convictions forged during the elevated to become the materials not only of making do, but of choice. local residents - a crucial aspect of the sustainability of the projects. this abiding moral authority of the anti-apartheid struggle.

strategies that provide natural ventilation, shading in the summer, and solar gain And they seek to leverage program spaces to do more than they were assigned firm designed two-faced industrial arts and home economics classrooms to line to do - often to add to spaces for community gathering, entrepreneurial activity, Roll-up windows, counter height silks and built-in benches on the street side of the classrooms offer the opportunity for selling items made by local adults to the community. Even when the windows are closed, the benches and paved building have always been "sustainable". They use architectural and malerial in the winter. Ceilings often soar so that daylight can pour down from above. adult training and micro-business tocations in the evenings and on weekend and public uses. For instance, in one high school in the Cape Flats, Noero's campus during the school day, then, when the students are gone, become the township street edge. They are opened from the secure inside of the Given the impoverished energy circumstances in the townships, Noero's sidewalk invite sitting in the sun, socializing and playing. Struggle.



South Africa Energy Provis
Cape Town, The city divided by
weelth, density, and opportunity

Neero's post-apartheid buildings continue these explorations. However, as the townships slowly become towns, as the buildings in these places become larger and house cultural programs, his material patent is expanding to include steel, concrete, plate glass and wood. These are appropriate to serious cultural buildings, regardless of location. The works at Red Location – a museum to the anti-apartheid Struggle, an art galleny/center, and a library fwith a theater complex in development) – was won in a competition where Noero's team envisioned a lively public intersection formed by the buildings. The award-winning museum is an exquisitely detailed work using the township patente and spatial references to the factories across the nearby railroad fracks in combination with inbust poured-in-place concrete. Completed in 2005, it soars far beyond its humble spatial and material roots to make an iconic building that straddles the dire past and the unforesesable future.

been slowly appearing, but with no cultural tradition of using piazzas and parks, edge of his projects. The investment to make such places is low—requiring only from home but in community, maintained by the buildings they are outside walls leveraging of the township projects. Photos of the townships always show lots of open space – ungroomed empty lots where children play soccer, crisscrossed by concrete surfaces where children can play out of the dirt and under the tolerant But these are not public spaces, these are expanses of no-man's-land. They are successful are smaller public spaces like the ones Noero makes with the street along one street, and the Library hosts a poetically long bench along a smooth the almost entirely one story townships. The intersection and streets are clean blue-purple wall. These occupiable edges create an additional public amenity: they bring down the scale of these new building types at the street and within paths tracing the shortest route to transport, plastic bags langled in the weeds. benches and perhaps an overhead covering for shade or rain protection. At gaze of the museum security guards. These places of being outdoors, away unsightly, unseen and dangerous places in low-density suburban-like sprawl indeed, during apartheid non-white people in South Africa had no real public space might be designed to invite people to gather informally (and safety), to space in the townships and were prohibited from lingering in any developed Since the end of apartheid formal public space in the some fownships has Red Location, the Museum provides a shaded verandah with places to sit public spaces in the white cities. Even now, the very notion that an ourdoor Noero's use of architecture to develop edges that invite public use is a key these often fall into disrepair unless diligently maintained. Much more interact, to be used as a collective resource, is still surprising. to, provide critical ingredients to a civic life.

While apartheid ended in 1994, from the window of an amplane it is easy to see how deeply the system is still written into South Africa. Even the smallest towns

Hangberg (photo by Uno Perreira)

appear as two towns. One consists of a grid of tree-fined streets and comfortable houses surrounded by lawns its shriveled him, always some distance away, but connected by a well-travelled road, has a much tighter grid of offin roads lined with tiny houses or shacks. Here trees are a rarity and lawns non-existent. This pattern appears no matter the size of the population: here, the white town and, over there, the black or colored 'lownship'. The implications of this separation are compounded in large cities; huge distances continue to separate the black and colored townships and the "white" city. While no longer prohibited from living inside these cities, most working class blacks and "coloreds" cannot afford the move, and many do not want to leave their communities. So they remain in the lownship locations that continue to grow as the government builds new housing and as new residents add to sprawling shack neighborhoods. This is a world where car ownership is rare and the fransportation so essential to modern life remains inconvenient.

7

Cape Town is the embodiment of this South Africa split between developed and developing worlds. It is a world-class offy with numerous poor townships clustering around it. Hangberg, tiny in comparison with many of the other townships, was founded in 1956 when the apartheid government forcibly moved all the colored people who had been living in Hout Bay onto just 2% of the habitable land edging the steep-sided bay. Here they were close to the lisheres jobs that needed cheap and readily available labor. Apartheid officials ignored the lack of transportation and the kilometers of empty dusty road between the township and the nearest commercial amenties. And the fact that the township has a million dollar view escaped their attention.

After apartheid ended, Hangberg grew in size and slowly became a mixed-race community. The shack settlement expanded and was eventually sanctioned by an overburdened government unable to provide decent permanent housing for the residents. And the land adjacent to the historical edge of Hangberg, in the little valley that runs up from Hour Bay Harbour was subdivided into a neighborhood called The Heights, and sold to middle class buyers willing to pay for the view, even if they had to drive along the edge of Hangberg to get to and from home.

But Hangberg is still at the end of the road, where the poor and impoverished citizens are keenly aware of the extreme beauty of their place, but where they struggle every day with limited infrastructure and cut off from commercial and civic life. Most rely on carpooling, http:-hiking, overloaded informal taxi vans known as kombis, and dilapidated public buses to get to work or to go shopping for essentials. Electrical lines are tapped by a tangle of illegal wires tacked on telephone poles, skipping across house eaves and running along improvised tences. The famously fierce Cape Peninsula storms often cause this fragile



127

The future of energy for the kilowatt-guzzling global middle class is indeed grim.

billions, we will quite rapidly meet the end of the petroleum ara. In this future,

As the world continues to develop and this middle class expands into the energy costs will spiral to dizzying heights and, as a result, we will live in

resident of Hour Bay Harbour, and as he did during the apartheid era. Noero

daily witnesses the dispiniting inequities that continue to plague Hangberg,

South Africa and indeed, vast swaths of the humanity.

but ten years ago, he built his family a modest house in The Heights. He is a

petrol of our cars, or pay an electric bill, or write a check for refilling the propane

tank? What if, what if?

Many find this a terrifying idea. But what if, Jo Noero asks, this is not the end or community-based energy future for us all? What if we never again have to buy

life as we know it, but rather an invitation to a decentralized, locally-sourced,

energy-reduced circumstances that require profound shifts in our behaviours.

solutions to energy make any kind of sense at all. Noero, as he always has, seeks what kind of energy systems already exist, or have the potential to emerge from to discover through his project for this exhibition, ways that energy infrastructure 'energy", in terms of replenishment of the hope and courage their lives require the landscape, the informal organization and the human energy of Hangberg. electrical arrangement to lait. This is clearly not a place – economically, socially, and histoncally - where conventional centrally-controlled, commercially-based And they have asked themselves what more the residents need in terms of solutions but also responds to the need for networked public spaces in the And so Noero and his team have conducted careful scientific research into can empower the citizens and the community and help them to wrest their embedded with productive infrastructures" that provides not only energy energy future from the vegaries of capital markets and corporate greed. The result is Productive Public, what Noero calls a 'new public realm

community.

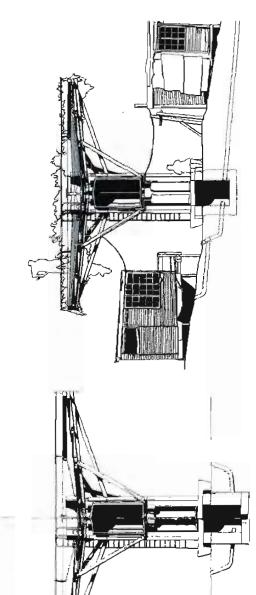
be an autonomous settlement free from the city grid, using only the energy that architectural exploration (think Rem Koolhaas in Lagos, Nigeria) This is not the one. "We wanted to see what would happen if we separated this research out majonly of his thirty years of practice working in the townships of South Africa, To be clear, this is an abstract utopian project, While Noero and his learn have had some conversations with residents of Hangberg, the project is not a "real" we have found," he continues his that it is completely feasible for Hangberg to these externalized energy sources because we operate in atomized ways and couniless hours of his practice life involved in just such conversations. "What communilies as fodder for advancing parlicular research agendas or careers, In recent years there have been examples of architects using improverished don't care at all about each other. But the current situation is actually like a for displaying to the world a version of poverty pornography in the guise of from local politics and community dynamics", says Noero, who has spent cooperative spirit and people have to work together. Look, we only rely on is available to them locally. But, and here is the utopian part, it requires a case with Noero's proposal for Hangberg: not only has Noero spent the noose around our neck that is getting tighter and tighter and tighter."

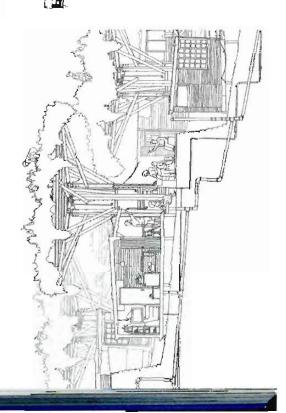
energy infrastructure in the fighing Productive (rejouble Section through the small-scale

yours rection though small SCALE ENERGY PIRA-STRUCTURE

Scell A

energy infrastructure Nocal section





materia: el tema es material matería: the subject is material

Lisa Findley

Cada material users out concernificas expecíficas que deberros comprendos cir a que queremos usardo. Esto a soi para el atano y Estrumo losi como para la materia, el ladalha y le patro) Debenos, recodar que usba depende ne cono usanas un material y no del material en ri... Los materials nuevos los por execacionemos suscional y no del material en ri... Los materials nuevos los por escacionemos son los funcionas de nuestros ebificios cari como con nuestros materiales. Debenos entender lo que un edificio puede fugar o se, lo que deberio ser acti ambién la que no clabe tex. Y así tomo nos acercamos o los materiales, así como comprendentes funcioses, umben debenos fornilamentos con los factores pacibles os reprintades de nuestro día vio hay octividad cultural que sea pobalte de sirá moneras corque paparedenses de textrón la far unastro éstaco.

MIES Van der Rohe: fragmentus editados, Charla mauguralen et Maantuto de Tecnologia de Illinois, 1938 Aqui, en 1938. Mies nos habla no de un estib de arquitectura sino más bien de un compromiso con los materiales; su manufactura y su relación con el contexto cultural, temporal espacial. Este tema fundamensal de la arquitecturo trasciende el tiempo, el lugar y la tecnologia. Reveta además que el pensamiento de Mies sobre la arquitectura es más complejo de lo que se suelle considerates. Sus tendencas humanistas que mamuvo a pecar de la ornadoxia del CIAMA y la necesidad de los historiadores por categorhas, se dejan ver clairamente, se manifiestan de manera concisa en edifictos como la VIIIa Urgendhat o el Pabellón en Barcellona, y velmínin años después se expesan con la característica prectitlón miexiana de la formula "Dios esta en los detalles".

Presentar a un joven taller de arquiterbura contemporánea ton citas de un icono fundamental atel moternismo del siglo XX es qui sals algo extrano. Sin embargo, estas ideas southe los materialast en la arquitectura hacen eco a través del tiempo y, como un tema en la jazz, han sido elaborados, transformados e improvisados pot toda una linaje de arquitectos. El taller de arquitectura que se presenta en esta monografía penence a la estirpe humanista del modernismo. La tración del tepado que responde a un contexto, el arte del desidustino y preciso y el despliegue poeditico de materiales es rucial en la baba de los modelos (Kahn, Scapa, Zumtho, Sira, Barragain) y de los memores (Wendell Bumert, Manaile Fuster) de este faller arquitectónico, Maneria Arquitectónico.

Gen material has its peoffic characteristics which we must understand if we want to use II. This is no less three of sted and concrete [han of wood, butch, and stood] We must remember these everything depends on more we use or material not on the motional isadf. New materials are not never storily superior Each material is only what we make of it... We must be at familiar with the functions of our buildings as with our materials, We must be an indendal; we must be an what to buildings are be, what it should be and also what if must not be... Must just as we are understand functions, so we must became femiliar with the sychological and synchol factors of our day.

So collecting activity is possible otherwise, for we are dependent on the pin to jow time.

Mies Van der Roher adhed excerpts 1938 inaugural address at the Illinois Institute of Technology Here, in 1938, Wies is talking not about a style of architecture but rather about the engagement with materials—their coffing and their relationship to spail, cultural and temporal context. This fundamental subject of architecture is one that usoxcends time, place, and technology. It also reveals viles; thinking about architecture to be more complex I has to eveals viles; thinking about architecture to be more complex I has to endeathy. Fearings that out yet stripped away by the orthodoxy of CIAM and the urge of historians to categorize, show clearly, fearings that are most clearly manifested in buildings like the "ugendar Villa and the Barcelona Pavillon, and that are condensed with characteristic Missian practision twenty-one years bete as "Cool is in the details."

To introduce a young 2st conluty architectural practice with quotes from a fundamental scon of 2st contury Modernism, is perhaps a but odd However, these ideas about malerfals in architecture resonate throught inne, and, life a theme in jazz, have been elaborialed. Vansformed and improvised upon by a lineage of architects. The practice displayed in this monograph is of the lineage of architects. The practice displayed in this monograph is of the lineage of the humanist strain of modernism. Cometki responsive space making, lite hard of exquisite and precise detailing, and the poemic deployment of materfals is essential in the work of the role models (Kehn Scapaz Zumthor, Siza, Barragan) and mentors (Wendell Burnert, Nataniel Fuster) of the young architectural practice. Materia Arquitectorica.

Materia" is a lovely Spanish word whose meaning shifts with context. It can mean subject matter, substance, or the material of

1 Mies van der Rohe, Interview in New York Herald Tubune. 28 June 1959.

¹ Mies Van der Rohe, entrevista en el New York Herald Ynbune, 28 de junio 1939.

which something is made. This triple meaning—on one hand conceptual and potentially philosophical and, on the other, profoundly and profamely physical—is precisely why it was chosen by Usa Beltran and Gustavo Carmona in zoold for their newly launched practice. Based in Mexico City, Materia is among the young firms sprinkled around the globe that eschew style and willful form-making in pursuit of a different, more crific based humanist agenda. This new generation gives hope to the future of architecture.

Beltran and Carmona met in graduate school at Arizona State University (ASU) in the United States in zoos. Spanish is the first language for both of them: Beltian came from Puerto Rico where she did her undergaduate work at the University of Puerto. Rico and Carmona came from Mexico City and his rutides at Anahuac As a result of getning to know each other in the context of school, the very DNA of their relationship is interwined with architecture At ASU, it was the differences in their work that stood out. According to Beltran, she would book at Carmona's work and "In would be very precise, with sharp and clear corners, very regular and carefully controlled. Beautiful lines, careful proportions." Then Carmona would look over and see Betten's prejects, which were almost the exact opposite, he says, "There was not a corner in sight, one project, twas so thrilled by her project. It was so much about experience."

Ten years but of graduate school, these differences are still there—and they provide a crucial dynamic for the work of Materia. In conversations about architecture, the two bounce ideas back and forth, picking up a thread or direction the other has staned. The fact that they do not always agree does not cause either pause; they exchange ideas rapidly, modifying their individual stances—and still, not always agreeing in the end. In all of this, they are at ease, respecting what each brings to the conversation and trusting each other and the process of refining an idea. It is a glimpse of how their design process works. This process has evolved over time and within the demands of the practice and their busy shared daily life. "We end up having a lot of project conversations in the kitchen and during meals. Our daughters just roll their eyes." Beltrán laughs. "It is to important that we have each other to constantly remind ourselves of the key ideas. In this way we keep each other honest and are able to maintain our intentions for the projects.

Maker is believes that there is no perfect architecture, and they know in this for it is the imperfections that make us human. There could hardly be a more humanist agenda for an architectural prac-

Material es una hermosa palabra en español cuyo significado varia según el contexto. Puede refertirse al tema en cuestión, a la subspancia, o al marerial del cuel alego está lacebo. Este triple significado, por un lado conceptual y potencialmente filosofto,, y por el otro prófunda y profenamente físico, es precisamente filosofto, y por el otro prófunda y profenamente físico, es precisamente les estros para para nombrar su estudio. Con base en la ciudad de México. Materia está entre las empresas jovenes desparramadas por el mundo que rehúyen al estió y al la treación descuidada de la forma, en buxea de una croación diferente, ante-anal y humanista. La nueva generación de seperanza al futuro de la aquineriu va.

Refirthly Carmona se conocieton en acon, mientras estudiaban en la Universidad del Estado de Arizonal (ASU) en Estados Unidos. Los dos con habitantes nativos de español. Betrán es de Puetro Rico, donde se gradido con estudios de la Universidad de Puetro Rico, o Gamora es de la ciudad de México, donde competo sus estudios en la Universidad Anahuac. Como resultado de concerse en el contexto universitario el mismo ADN de su releción está entrebasado con la requistra. En el mismo ADN de su releción está entrebasado con la requistra. En contexto universitario, el su diferencia entre su trabajo de Carmona vela que es "muy precisos, con esquinas nitidas y concisas, muy regular y meticulosamente controlado. Unicas belles, proportiones cuidadosas." Luego Carmona, al estudiar los proportiones cuidadosas. Luego Carmona, al estudiar los proportiones cuidadosas. Luego Carmona, al estudiar los proportiones cuidadosas. Luego Carmona, al estudiar una acaquina visible un proyecto esta todo azul oscuro, myy fenomeno lógico, muy mágitot. Es más que nada acerca de la experiencia."

Diez años después de gradvarse, estas diferencias aún subsisten las sobre arquitectura, ambos intercambian ideas y entre los dos completan sus respectivos hilos de pensamiento. El que no siempre están de acuerdo, no los pausa. El intercambio de ideas es veloz, modificando sus puntos de vista originales, y aún así, no siempre concordando al final. Pero siempre están tranquilos, respetando lo que el otro trae a la conversación, y conhando entre sí, así como en el proceso de perfeccionar una idea. Este proceso ha evolucionado de la cotidianeidad activa que comparten. "Terminamos con muchas Nuestras hijas simplemente ponen sus ojos en blanco", dice Beltrán entre risax. Es tan importante que nos tenemos el uno al otro para y brindan una dinámica crucial para el trabajo de Materia. En thary se ha ido transformando dentro de las demandas de la práctica y conversaciones sobre proyectos en la cocina y mientras comemos. recordamos constantemente de las ideas clave. De esta manera, hacemos que el otro sea xiempre honesto y capaz de mantener nuesres intenciones para los proyectos".

Materia cree que la arquitectura perfecta no existe y se jactan de ello, porque la imperfección es lo que nos hace humanos. No pogracia y el buen humbi necesarios para una pareja con dos hijas y estudio exitoso. Esta humanidad se profundiza con el nível de conciencia, raro en una empresa jovren, a la que en general le lieva cierto control del detalle. És un juego de larga duración. La voluntad de dejar de lado la perfección no significa que no se busque. Sin embargo, sí implica una liberación que les permite experimentar con su trabajo, jugar con ideas, tomar riesgos, cometer emones, refinar las cosas que funcionan, descartar las que no. Como resultado, para Matería cada proyecto es una plataforma para el aprendizaje, una detailes. Esto fleva a una versión arquitectónica del juego y, como dría haber concepto más humanista para un estudio de arquitectura y Materia lleva adelante esta idea con la inteligencia, diligencia. años llegar a tener cierto dominio de la arquitectura y, en particular, especie de laboratono para expandir su vocabularlo espacial y material, desafiar las tendencias locales de construcción y para probar toda gran actividad ludica, el miedo no tiene cabida.

Eletrán y Carmona Nicieron el muedo a un lado cuando trasladaron a su familia de la bahía de San Frantisco a la ciudad de México donde abrieron un nuevo estudio. Su primera comisión ha ripora de una empresa recife establecida: la extensión de una casa. Luego consiguieron algunos proyectos de diseño interior para companías locales. Com dos hijas, los gastos de una oficina y un trabajo que apenas cubría sus costos, los primeros dos años no fueron fáciles.

En zoro se abrió un nuevo horizonte quanda fueron contratados como arquitectos loches para el diseño de una tenda de una maria intermacional de lujo en México. Materia se encargo de tealizar la tatapa final de la supervisión de la construcción. Sin saber realmente si exte tipo de tabajo tendría valor alguno para la empresa que estaban lanzando. Belitán y Carmona se encontraron en lo más profuso de detesdío anquiectónico, profrentándose a diairo con nuevos relos. A menudo se sintieno abrumados pero a la sez entusismados y animados. "Querla mos simpresionados, "dice Belitán, "así que trabajábarnos muy pero muy rigunosamente." Carmona se rele, "jua lista de pendientes estaba tan empapada de motas en rojo que parecla que desangraba?" Pero el resultado de este proyecto fue son prendente. Y el alto cuidado con el que se encarganon del proyecto, brindo tan pellos resultados que establecieno esta forma de hacel la tososs, como el modo de operar del Jaller.

V es así que comenzó al romance de Materia con materiales y detalles. Y, basándose en el éxito de este primer proyecto, también

tice, and Materia pursues it with intelligente, diligente, grace and the good humon necessary for a couple with two children and a building on this furnanity is deepened by the consciousness, note in a young firm, that it usually takes years to gain command of architecture; and, in panicital, to master detailing, it is a long game. The willingness to forgo perfection does not mean that they do not stuve for it. However, it does free them to experiment with their work, to play with ideas, take risk, make mistakes, refine the things that work disrard things that do not, sto play with ideas, take risk, make mistakes, refine the things that work disrard things that do not. As a result for Materia each project is a platform for learning, a kind of laboratory to stretch their spatial and material vocabulady, challenge the local building trades and to test out details. This leads to an architectural version of play—and like all great playful activity, it is underprinted by fearesses.

Beltrán and Carmona were certainly fearless, when they moved their family to Mexico City from the San Francisto Bay Acea and opened an office. Their first sommission was typical of a newly established firm: a house extension. Then they landed a few retail interior projects for local companies. With two children, office overheads and work that just barely paid for itself, the first two years at topole.

and punch list for the project. Not sure if this kind of work had were often overwhelmed—in a kind of thrilling, enlivening way. "We But the result of doing this work was surprising; the partners found themselves fascinated by the way things were being put together to achieve the final surfaces and intersections of materials. And the high degree of rigor with which they approached the project yielded such beautiful results that it became a key mode of operation In 2010 they had a big break: they were hired as the local architects for a Mexico store build-out of an international lutury prand. The store was designed by an American architect, and Materia was tasked with doing the end stage construction supervision value for the practice they were launching. Beliran and Carmona found themselves in the architeraural deep end, confronted every day with new challenges they had never dealt with before. They wanted to impress them," says Beltrán. "so we were very, very rigor ous in our work." Carmona laughs, "The punch list drawing set was so covered with redline notes that it looked like it was bleeding." for the practice.

And so began Materia's love affair with materials and defalls.

And, based on their success with the first project, it was also the beginning of a body of work for various luxury international brands.

the creation of a sustainable financial model for the practice and the opportunity to develop a collaborative design culture based on team purpoverment. The firm has now done more than wrenty store buildbott in Mectos and other countries including Brazil. Colombia. Chile and Barbados. The rigorous expectations for these high-end brands include elegant spaces with elegant detailing, as carefully designed and crafted as the products they showcase, but never upstaging the products they also comes with limids—not only due to the fact that they are commercial projects within existing the products that they are commercial projects within existing the products that due to the corporate owersight and brand expectations. Bellitan and Carmona sought our places where they could experiment within these constraints. The store faquels, where branding was necessary, but where the individuality of the place could be explored begane they opportunities.

With these demands and the iutury budgets for the stores, Materia became familiar with tehnen materials, high-end material processes, global sourcing, very tight construction timeables and an ingrained expectation of extellent details. But doing this work in Mexico City meant that sometimes they also had to struggle with construction quality. Over time they have learned to work smoothly with local suppliers and fabricators. Carmona: "We have discovered now to get them on board with the project, get them exclined about the craft. This is how to get high quality from a construction culture meterstanly actustomed to such demands." Beltran continues: "Yes, and we learned to care as much about what is behind the wall as we do about the finished surfaces, joins and corners that you see

This commercial work forced the form to develop another set of stills critical to well deligeed and detailed architecture: the ear-lip and diligent working out of mechanical electrical and plumbing systems. These systems readed to be invisible, magical infrastructure working behind the scenes to provide light. If esh air, music and security, Effortless MEV coordination and seamless integration into the overall design it an advanced still in architecture, usually taking years of experience to do well. This demanding commercial work provided Materia work provided Materia work in closh course in these skills.

as a result."

Having earned the trust and respect of the corporate head-quarters of the brands, this commercial work continues as high-end bread adulter for Materia's eighten-person office. And while the Laury stores faid the graundwork for the practice, over the past handful of castom-built houtes, office buildings and interiors have allowed the firm to move beyond the constraints of

fue el comienzo de un cuerpo de trabajo para varias marcas internacionales de lujo, la creación de un modelo económico sustentable
para el taller, y la oportunidad de desarrollar una cultura de diseno
bascida en el forabletímiento del equipo. La empresa ha realizado
hasta ahora más de veinte proyectos de tiendas tanto en México
come en outres paleses, incluyendo Brasil, Colombba, Chiley Barbados.
Las expectativas rigurosas de estas marcas de alta calidad incluyen
espacios elegantes con detables suntunosos, diseñados y creados ton
tanto cuidado como los productos que ofrecen, pero sun eclipsarlos.
Belitah y Carmona buscacion situs en los que pudiena experimenlar core stras restricciones. Las fachadas de las tiendas, cuando se
precisaba establecer una marca en donde la mera individualidad del
sitio podía exploraise, pasaron a ser oportunidados únicas.

Con estas evigencias y presupuestos de lujo para las tiendas. Materia se familiarido con materiales finos, procesos de materiales de alte calidad, abasteclmiento global, plazos de construcción muy ajustados y una expectaciva natural por detalles excelentes. Pero la realización de este trabajo en Latinoamérica implicó que a veces Lambién tuvieran que lídia con dificultades en la calidad de la construcción. Con el tiempo, aprenderen a trabaja armoniosamente ton los provedores y labricantes locales. Camona dice. "Hemos descubierto cômo incorporarlos en el proyecto, animarios sobre a arre de construit. Esta es la manera de conseguir una buena calidad en una cultura de la construcción no netesaniamente acostumbrada a exigenciais de este tipo", Beltaña troninua: "Exacto, y además aprendimos a darle la misma importancia tanto a lo que está destrá del muro como a los toques finales de las superficies, las uniones y las esquenias que uno ve como resultado".

Este trabajo comercial hiso que la empresa dezarrollara otro tipo de capacidades clave para una arquitectura detallada y bien diseñada: el diseño temprano y ágil de los sistemas mecánicas, eléctricos y de pémeria. En anecesarlo que estos sistemas fueran invisibles. Una fácil coordinación en la ingeniería mecánica, la electricidad y la plomería, con una integración armánica en el diseño general, es una gen habilidad aquitectónica que generalmente lleva años domunar. Este exigente trabajo comercial le dio a Mareria la oportumidad forzada de adquirir experiencia en estas apótitudes.

Habiéndose ganado la confianza y el respeto de las casas centrales corporativas de ciertas maxeas, este trabajo connecial confinia como un alimento muy valloso pora el taller de dieciocho personas que integra Materia. En los Jiffinos tres años un manojo de casas de alto diseño, edificios de oficiase e interfores, le han permitido a la

firma avantar más allá de las limitaciones de las marcas comerciales, para desarrollar una sensibilidad y un comportamiento laboral propios. "Cavarnó establecimos la firma, no nes imaginamos que el deta-le se convertirá en un eje central de nuestro trabajo, y sin embargo, aquí estamos", Reflexiona. Camona, mientras observa la intersección entre un muro, una escalera y un piso, compleja y bellamente lograda en una casa recréh terminada.

Como se ve en este ibto, el trabajo de Materia es simple, con esquinas limpias y conesiones directas. Como en la obra de Luís Barragañ. Jos especios se revelan como lugares directos, aunque cubernos
gan. Jos especios se revelan como lugares directos, aunque cubernos
de complejidades a través de la luz, de la sombra y de la superficie.
Los materiales se eligen por sus tenturas y colores naturales, creando
contrastes, patíones, reflejos, aromas y temperaturas emocionales y
visuales, Los sitios donde se juntan dos (o más) materiales o superficies son dave en este upo de aquitectura. Así emerge la aquitectura de Materia, como un conjumo de intenciones presente en cada
requires, en cada linea.

Este tipo de arquitectura despojada le huye a los zócalos y a las molduras que cubren las uniones de las superficies o donde cambian de dirección. Estas encuentros requieren una atención extraordinaria y un gran culdado, tanto en el diseño como en la construttuón. Para poder realmente funcionar, los detalles tienen que realizarse sin esfuerzo. Como vemos en este libro, Matería tiene una mano segura y poética en este arte esencial, haciendo que parezca algo láci). Carmona lo describe así: "Un detalle no tiene por qué estar hecho con la última tecnología, o tener mil partes. A veces, es sólo cuestión de una piedra sobre otra piedra. Pero el hecho es que estarán en contacto. Y ese detalle tiene que encontrarse con algo. No puedes asumir que será bonito". Beltrán afirma con la cabeza, y dice: Tenemos que pensar en la elaboración del objeto. Si no, no cuentas con todas las posibilidades. Si no lo haces, lo dejas al azar". Carmona retoma: "Tienes que darte cuenta de lo que realmente está pasando detrás de la superficie visible para que algo se alinee o gire. Te vuelves algo mecánico. Nuestro profesor en la Universidad, Wendell Burnett, nos ayudó mucho en la comprensión de esto. Él lo llamaba la simplificación del detalle o en inglés, dumbing down the detail. Empiezas a partir de lo que quieres que sea el producto final, y luego retrocedes en el proceso de ensamblaje".

Aunque comparten su fascinación sor los detalles, los socios tlenen diferentes enfrques cuando se trata de pensar en ellos, tala una admirando los apontes del otro. Carmona adora resolver las intersecciones de material e involucrases con las dimensiones.

commercial brands and develop both a sensibility and work ethos of their own. When we started the practice, we never imagined that details would become a core of our work and yet, here we are. Carmona muses, looking at the complex and beautifulty, resolved interaction of a wall, stair and floor in a recently completed house.

As demonstrated in this book, the work of Materia is stripped down, with clean contens and straightforward connections. As in the work of Luis Barragan, spaces appear straight-forward, but are layered with complexuiest hrough light, shadow and surface; materials are chosen for their natural textures and colors, creating contrast, pattern, reflections, and more and solve the pattern. The places where two formore) materials of surfaces meet are critical in this kind of architecture. In this way, Materia's architecture annegges, as a set of intentions present in every former, every line.

boards and molding that cover conditions where surfaces meet or change direction, this meeting of surfaces demands extraordinary attention, and great care—both in design and in construction. In orstrated in this volume, Materia has a sure and poetic hand with this es. Sometimes it is just a stone placed against another stone. But the fact is that they will still touch each other. And it has to meet something. You cannot just assume that it will be nice." Beltrán nods. She says. "We have to think of the making of the thing. If not, you do not have alt the possibilities. If you do not do it, you leave it up to chance." Carmona picks up again, "You have to figure out what really happens behind the surface that you see, for something to align or turn. You become a little mechanic, Our ASU Professor, Wendell Burnett, helped us so much in understanding this. He called der to really work, the detailing has to appear effortless. As demon essential art, making it look easy. Carmona puts it this way. "A derail does not have to be super high-tech or have a thousand piecit dumbing down the detail" You start from what you want the fin-In this kind of stripped-down architecture that eschews base ished thing to be, then work backward into the wall."

While they share a fascination with details, the partners approach binding about them in very different ways—each adomining the strength the other brings. Carmona loves resolving material intersections and defung into the smallest dimensions, delighting in the precision, working and reworking the way materials will come together. He says, "I think that construction documents are the most design fon because of that little tweaking of things and how they can come together. While we do make changes on site, we prefer to detail through drawing as much as possible."

For Beltrain, this working out of the finest level of detail is more challenging—but site brings to the details an essential overall sensibility, even poetry—"I find it evy difficult to balanca the two things—the emotion and the reality of architecture—at the same time." Even before is the came to architecture Beltrain was designing and making jewelry and clothing. This work continues in these endeavors she is making the thing itself, there is no intermediate step of documenta-things the closing while making, refining the ideas in process. Architecture is a scaling-up of the designs-sensibility—from jewerry and clothes to buildings. She understands extreme needs of craft as a most intermed evel, and the pitfails and potentials in the way things come together. However, for the the process of documentation in architecture creates a kind of divide between designing and making Her collaboration with. Cannona bringes this divide.

The two partners admit to an addiction to details. There have been times? Carmona says, "when we have designed a details section at the beginning because we had an ulea in mind, or wanted to only with ternal materials. Bettiefn finishes the idea: "So the partitist sometimes an excuse."

"Dihet times," says Bellian, the detail is the last expression of the lidea. In teriforces the petity of the experience we are looking for." This inderest in the experience of the building was not readily available when Materia was only designing retail spaces. With the retail work, the experience of entering and moving through the project was essentially pre-determined. With the houses, the oveiall thirtor and through the site and the building, is an opportunity in design. The house projects have allowed Materia to explore not only a vocabulary of details, and also to carefully craft other aspects of architecture. These range from negotiating the intersection of brand mew metailstals and program with a 300-par-old former Quinna in the north of Forugal to creating a courtyard for a house on a very steep Mexico City Slope.

In general, when Materia receives a new project, both partimers start ulriking about the overall parti, including issues at the bullding scale like program, site and context. At the same time, they explore ideas of materiality in the smallest scales, to bridging between these two scales of architectural thinking, they carefully compose episodes and experiences of the site using the craft of the section to bring out the qualities of place. In this way, the details are not deployed as acrobatics, but cather in the service of the intentions of the architecture to make space, evoke moods,

más diminutas, disfrutado de la precisión, trabajando y volviendo a trabajar las formas en la que los materiales se unen. Dice, Thenso que los documentos de construcción son lo más divenido en el disendo, por ese ajustas las cosas y cómo se vuelven un mismo conjunto. Aurque hacemos cambios en el lugas, preferimos detalla hasta lo más mínimo en los dibujos.

Para Betrán esta elaboración del nivel más 6no del detalle es mát desafante. Sin embargo, ella aporta una sensibilidad, incluso cierra poesía esercial para el destalle. Se me hare difícil equilibra ambas cosas, la enoción y la realidad de la arquitectura. Incluso antes de acercarse al mundo de la arquitectura. Betrañ crea el objeto en si mísmo: no hay un paso intermedio para la documentación. Duena miemzas hace, refinando las ideas en el proceso. La arquitectura es un avance de su sensibilidad en el disendo el jugo para la impa, a los edificios. En lidende las necesidades más extremas del arte al más fini no nivel, así como las desventajas y posibilidades en las que todo converge. Sin embargo, para ella el proceso de documentar la aquitectura crea cierra división entre el direcho y la producción. Su colaboración con Carmona fusiona eras direconia.

Los dos socios admiten ser adicitos al detalle. "Otras veces", dice Retufan, "el detalle es la última expresión de una idea, Subraya la poesía de la experiencia que estamos buscando". Este interés en la experiencia del edificio no estaba al alcance en sus ínticos. Con el diseño de telendas, la experiencia de entrary moverse a través del proyecto estaba prácticamente determinada con anterioridad. Con las casas, la jerarquia general y la relación de los especies (el pantido la pratectos arquinectónicos), y los movimientos hacia y a usvese del ugar y el edificio, son una oponunidad para el diseño. Los proyectos de casas le han permitido. A Materia no solamente explorar el vocabularlo de los deballes, sino también profundizar en ortos as pectos de la arquitectura. Estos aspectos van desde el análisis de la intersección de materiales y programas totalmente neuvos, en una er Quinta de yoo años en el norre de Porrugal. hasta crava el patio para una casa en una profunda pendiente en la ciudad de México.

En general, cuando Materia recibe un nuevo proyecto ambos socios empletan por pensar sobre el pantole en general, incluyendo la escala de la construcción, el programa, el situlo y el contexto. A su vez, exploran ideas sobre la materialidad en las escalas más pequeñas. En la acción de unir esta dos escalas del peusamiento arquirectónico, componen cuidadouamente episodios y experiencias

del sitio, usando el ane de la sección para destatar las cualidades de lugar. Así, los detalles no se despliegan como acubacias, aparecen la servicio de las Intenchores arquitectónicas por crear un espacio, evocar cientros estados de faimo, dirigu transiciones y celebrar el moyimiento del cuerro fundanto y sus sentidos.

Los precedentes para este aspecto de su trabajo se basan en la experiencia. Los vaijes, cosas de las que han gorado, lugares que traen consigo recuedos de plater y espacios que explicita y poetir camente se involucran con el cuerpo y sus sentidas. Se interesan más que nada en desarrollar una experiencia, una actitud, un sen timiento, más que une astronio. Betrán alude a sus experiencias en los espacios complejos del vierpo San Juan. Es su época de estudiante le babajó con un arquitecto especializado en la remodebación de edificios en la ciudad vieja. A III, se enamoró de los edificios monumentales de guersos muros en cuya interior se escondían pequehas habitaciones.

La primera vez que Carmona contempió el espacio como una experiencia fue en su onhez, vistando la fábrica de procesamiento de madera que su padre tenta en el estado de Veracruz. Mientuas su padre trabajaba, Camona recorrit el patito y liugiba solo, trepando aquelkos espacios treados por las pilas de madera procesada. Los rayos de sol se filiraban entre las pilas y se hacian visibles en el aser-rind que flotaba en el alie. Camona dice: "Siempre nes tocaron nás los recuerdos de cientos momentos dentro de la aquitectura que ciencos arquitectos en particular, lugares o espacios específicos. Al-gunos edificios se quedan contigo, otros no. Así que, cada vez que comerazanos un proyecto, siempre hablamos sobre los momentos. Nos interesa la forma del momento más que la forma de un objeto. La forma final del bójeto es la suma de esco momentos.

De esta forma, así como el denalle es poético en su arte intensivo y meticuloro, las cualidades espaciales y experienciales del trabajo de Martria emergen de una corcografía de liteda. Como la donza, esta cocegoráfía depende del tlempo, así tomo de las caroterísticas flucas y antisticas de la arquitectura. Uno se deja llevar de lugar en lugar, explorando y sinutendo. El intelecto se desmorona y se reemplaza por el placer casi infantil de existir en el cuerpo propio. Beltrán y Carmona explican sus intenciones en una conversación. Dice Carmona: 'Lo que buscamas se realmente un expíritu más que un estillo: "A Beltrar" 'Só, una experiencia muy humana". Carmona: "Es un tipo de spercicio de la consurucción, sobre la idea cómo harerlos economía, material, an el" Beltrán: "Realmente es un proceso

orchestrate transitions, and to celebrate the movement of the humber had secured.

The precedents for this aspect of their work are layered and based on experience, travel, things that have delighted them places that evote enduring memories of delight, and spaces that explicitly and poetically engage the body and its express. They are most interested in developing an experience, an attitude, a feeting, eather than a style. Behala cities her experience, an attitude, a feeting, eather than a style. Behala cities her experiences in the likely environments of Dueno Rico, in the brillian tropical light, and in the complex spaces of Old San Juan. While a student there, she worked with an architect who refurbished buildings in the old city. She fell in love with the threewilled monumental buildings that hid surprisingly small

Carmona first thought of space as an experience when he was a chief, visiting the wood processing factory his stater owned in the State of Veracruz. While his father was working, Carmona would state around the yard and spend time above playing and climbing inside the tall spares created from the stacks of milled wood. Sunlight would enser through the spaces between these stacks and made visible by the sawdous in the air. Says Carmona, "I have always been outthed more by memorites of moments within aciditecture after than by specific architects. Specific places and spaces, Some buildings stay with you, others do not. So, when we start a project, we always talk about moments. We are interestind in the form of the moment talber than in the form of the object; the final form of the object; the sum of these moments."

perceptual aim for spaces but it is done with a very rational way of In this way, just as the detailing is poetic through intensive and careful craft, the spatial and experiential qualities of Marerio's work emerge from a careful choreography. As with dance, this relies on the element of time as well as on the physical charactenstics and ing and expenencing, intellect falls away and is replaced by an almost child-like delight in being in one's body. Beltrán and Carmona explain their intentions in one of their back and forth idea-building conversations. Carmona: "We really seek a spirit rather than a style." Beltrán: "Yes, a very human experience." Carmona: "(1's a kind of exercise of edifying—from idea to how to do it; econom-As often happens, Carmona sums up: "You can say we have a very documenting and designing the details or design of that space. It is craft of the architecture. One is drawn from place to place, explorics, material, craft." Beltrán. "It's really a very emotional process." s kind of crafting."

RIPPLES: SEMINARS @ CCA

THE POLITICS of SPACE

Politics and space are intimately bound. From the scale of the body, up through the scale of buildings and cities and on to the scale of the landscape, those with political, cultural, economic and social power exercise explicit and implicit control over the shaping and occupation of space. As architects, it is critical that we understand this physical and spatial manifestation of power relationships. This seminar will explore the ways that power, politics, economics, and social and cultural hierarchies are made physical and will survey and analyze resulting building, public space, urban, and landscape patterns around the globe. Of perhaps greater importance, we will also be exploring architectural and urban design tactics, strategies and practices that challenge, subvert or seek to reverse these hierarchies.



LOCAL MODERNISMS

This seminar investigates a new generation of architects who practice within a critique of globalization; a disdain for the impacts of "flat world" labor, material supply and environmental impacts; and an exploration of both form and architectural production that is profoundly local in material, construction craft and technique, capacity building and sustainability (environmental, social, economic and cultural). In the hands of the most talented of these architects, these attitudes lead to fresh, elegant and leading edge architecture. These practices provide an insight into a shift of the international conversation around architecture away from Europe and North America.

These are the third of the three generations of architects we will explore. We begin with the Modernists and the thinking, context and work of the rogue "other modernist" architects—a first generation. This leads to a second generation: one that often spanned new independence movements within their own countries, seeking an architecture that broke with the colonizer and yielded both sophistication in the eyes of the world and identity for those at home.



CHANGING ASIA

This seminar explores contemporary issues in architecture and urbanism in Asia. The first seven weeks of the class will be devoted to the behemoth of China and its myriad architectural issues: staggering urban growth, abandoned towns, and the associated double edge of a growing lively contemporary architecture and the wholesale decimation of architectural heritage. We will look not only at Beijing, Shanghai, Guangzhou and Hong Kong, but also the "smaller" cities and struggling towns and villages. Along with urban issues, contemporary Chinese architectural practices, as well as those of foreign firms working within the country, will be introduced and examined from both formal and critical cultural views. After Spring Break, we will take on Southeast Asia with its rich historical complexities and myriad issues that range from strategic postcolonial vernacular identities to an embrace of global architectural culture on par with Dubai. Contemporary practices within the region will also be introduced and discussed. Running through the semester will be an exploration of the idea of "Asia" and its position within global architectural imagination and discourse. At the same time we will also be looking at the role architecture plays in ideas of culture, cultural history and memory, and in symbolic notions of progress.



RIPPLES: OPTION STUDIOS

BOOM + BUST: Architectures for Uncertain Futures Co-taught with Inaqui Carnicero Fall 2016

BOOM+BUST cycles are in the very DNA of capitalism and are experienced all over the world in varying degrees and for a wide range of reasons. However, these cycles create highly unsustainable and unstable built contexts that raise complicated and intriguing challenges for architecture as unpredictable futures lie in wait. This studio embraces these challenges by seeking architectures that anticipate unknowable future uses different from their initial programming. Given the intense energy and material investment in buildings, how do we design productively for such unusually dynamic cultural and economic situations? We will be testing our work with likely future scenarios: radical switch in uses, evolution over time, and significant additions. We will investigate the architectonic, programmatic, spatial and aesthetic opportunities of flexible, adjustable, open-ended and/or explicitly unfinished buildings. Our explorations will include the implications of these ideas and strategies on program allocation, spatial ordering, form, tectonics, systems, and material and technical choices.



This studio taps into the research and thinking of the **Building Change** thread.

LOCAL FUTURES: NorCal Wood Co-taught with Aidlin Darling Design

Spring 2016

This advanced studio explores reasons (ethical/ ideological/ historical/pragmatic), strategies (theoretical /spatial/formal/collaborative) and techniques (process/ material) for making architecture that is explicitly Local. This investigation springs from a critique of globalization. including myriad undesirable and unintended impacts of "flat world" labor, the unsustainable trans-national material supply chains, and the unacceptable environmental, human and cultural impacts of contemporary building production. This studio seeks, instead, an alternative approach to architecture that is highly local in response to place and climate, in material, construction craft and technique, and in capacity building and sustainability (environmental, social, economic and cultural). While the approach of this studio can be applied wherever in the world an architect is working, we will be using the Bay Area (and northern California) as an ideal place to carry out our research. Of specific interest to our studio is the intensive use of a locally available building material that is currently seeing a renewed focus among architects everywhere: Wood.



This studio taps into the research and thinking of the **Local Modernisms** thread.

RIPPLES: KEYNOTES/PROJECTS/TEACHING (see CV for others)

KEYNOTES/PANELS/LECTURES: (selected)

"Building Visibility: DeafSpace Meets the City" Keynote address: DeafSpace Colloquium, Gallaudet University, Washington, D.C. (2015)

"The Subject is Material", Roundtable panel hosted by Arquine Press, Tamayo Museum, Mexico City (2014)

"Negotiating Space: History, Memory and Politics in Building Cultural Visibility" Keynote address, "Practices, Processes and Politics of Indigenous Place-making: A Symposium", Melbourne, Australia (2010)



PROJECTS: (selected)

Consultant: Longling Valley Agricultural Museum, Jeitou, Yunnan, China (2015-present)

Consultant: Setswana Cultural School, with Sharp Shop Architects, Johannesburg, South Africa (2014-2016)

Consultant: Vanuatu Supreme Court Building, WMCQUIA Architects, Melbourne, Australia (2010)



TEACHING: (selected)

"Conservation Planning in Malaysia", co-teacher, lead workshops on spatial agency for Malaysian and Myanmar Urban Planners, Getty Conservation Institute, Penang, Malaysia (October 2013), (May 2012)

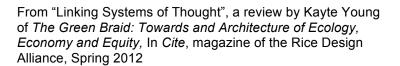
"From Township to Town: Civic Space and the Transformation of South African Black Townships" Workshop, African Studies Department, Emory University (2006)

"Mapping Spatial Power" with M'Phil Architecture students, University of Queensland, Australia (May 2004)



RIPPLES: REVIEWS

"......The Green Braid is not a book to be read from cover to cover as a coherent thesis or manual, but rather as a kind of collection to be kept on hand for inspiration. Just when I thought I had a handle on what the book was all about, I would turn the page, discover another gem, and feel my expectations challenged and my mind stretched to encompass other perspectives. I found myself surprisingly moved by a critique of Renzo Piano's Tjibaou Cultural Center for the Kanak people of the French South Pacific territory of New Caledonia. Lisa R. Findley's thoughtful treatment of the complexities involved in the postcolonial project of designing a cultural center for а marginalized indigenous communities after centuries of French colonial rule complicated my own initial response to the soaring beauty of Piano's formal choices. Piano's use of doubleskin wall systems, thermal chimneys and louvered panels in this project make me think of the Menil campus in Houston. It reminded me that a few worldclass architects have been developing technological and aesthetically stunning innovations in green architecture for decades, and Findley's hard-hitting essay re-instilled my faith in architecture criticism."



"Building Change manages a delicate balance by overlapping overt political content with more oblique or probing theoretical constructs to deliver an urgently needed reading of power relations in the production and reception of architecture. Unlike social scientists such as David Harvey or Mike Davis who regularly feature architecture in their analyses but use buildings as diagrams that illustrate rather than embody social and political formations in concrete and specific term, Lisa Findley's primary investment is in the architectural object. Her close interrogations of buildings dig deeply into the very material of architecture to tease out the content sedimented in form. Her readings yield critical insights that are provoked rather than merely illustrated by architecture—an important distinction that sets her work apart from the more pervasive critical genres. This book, clearly written and free of jargon, is slowly but surely becoming a must-read in academic circles."

Rodolphe El Khoury, review of *Building Change: Architecture*, *Politics and Cultural Agency*

