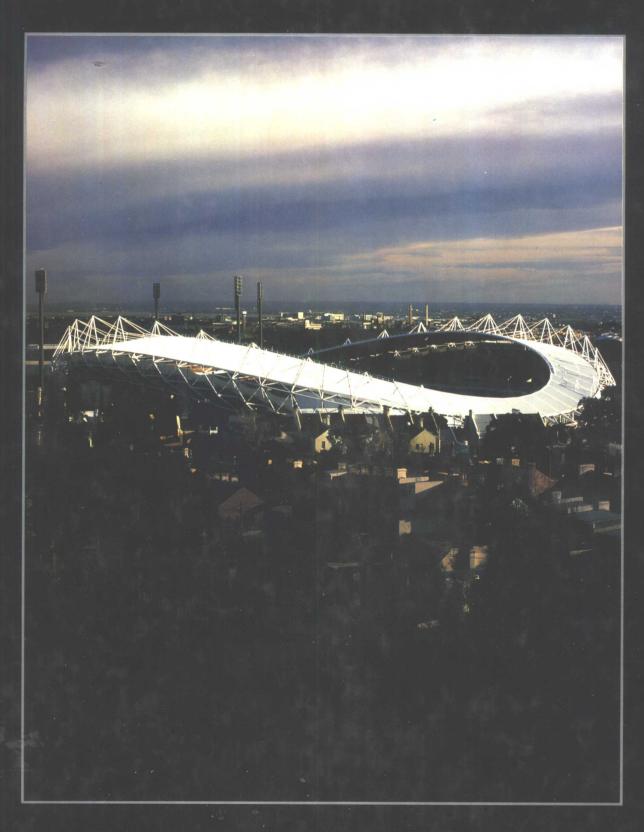
当代世界建筑经典精选(5) _{菲利浦·考克斯及其建筑设计事务所}

COX ARCHITECTS

Selected and Current Works



当代世界建筑经典精选(5) 菲利浦・考克斯及其建筑设计事务所

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菲利浦·考克斯生于 1939 年 1962 年以 优异成绩毕业于悉尼大学·获得建筑学学士学位·并获得了澳大利亚皇家建筑学会的银奖 1963 年起·与他人合作成立了建筑设计事务所·开始了他的建筑师生涯 除了从事建筑设计外·他还是新南威尔士州立大学的教授 他不仅在专业领域颇有建树·还热衷于绘画和艺术品收藏·同时还撰写了 8 本有关建筑历史的著作

考克斯的设计作品遍布整个澳大利亚国土 他对建筑设计的驾驭能力体现在各个方面:从宏伟的公共建筑到典雅的居住小区,从繁华闹市的区域规划到茫茫大漠中的度假胜地,那构思独特,风格多采的建筑物犹如一件件永恒的艺术珍品,初睹为之心动,继而回味无穷

考克斯不盲目崇拜 20 世纪国际建筑界盛衰的各种流派·不拘泥于英美给澳大利亚建筑留下的历史痕迹·不追随近年来日益流行的土著文化和亚洲邻国的影响。他十分注重澳州大陆具有的多元文化并存·地区间气候、地理、历史条件迥异的特征。因此·他主张建筑物应融入周围的自然景观之中,体现当地的文化传统并具有时代精神和活力。无论是造型布局·还是用材选色都遵循这一原则。于是·千顷海波、万里碧空映衬着点点白帆(澳大利亚国家海事博物馆)·红土高坡与五星旅馆在灌木丛中依依相偎(YULARA 度假胜地)

考克斯的另一突出成就是成功地运用了钢结构技术。充分发挥钢材强度高、材质轻、韧性好的特性,使大跨度空间建筑不觉笨拙(悉尼展览中心)同时,由于钢材便于造型的优势,同为表示海事主题的悉尼展览中心和澳大利亚海事博物馆可以表现成迥然不同的形式

菲利浦·考克斯由于在澳大利亚建筑领域的杰出贡献.几十年来获得了各种荣誉 其中.最著名的有:1983年成为澳大利亚皇家建筑学会的终身会员.1984年获得澳大利亚皇家建筑学会金奖.1987年成为美国建筑学会的名誉会员.1988年被授予澳大利亚勋章.1993年被选入澳大利亚皇家人文学会会员.更幸运的是.1993年,当悉尼城中标成为 2000年奥运会的举办城市之际,考克斯成了首位由国际奥委会正式承认的国际建筑师

当代世界建筑经典精选(5) 非利浦·考克期及其建筑设计事务所

THE MASTER ARCHITECT SERIES

COX ARCHITECTS

Selected and Current Works

北京・广州・上海・西安

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Introduction

An Essav

By Philip Cox & Michael Rayner

he work of Cox Architects covers a wider ambit than possibly any other practice in Australia. It represents 30 years of architecture, beginning with domestic projects designed at the height of the Sydney School, a movement which perhaps created the only collectively identifiable contemporary architecture yet to emerge in Australia. This architecture sought to create a spirit of design relevant to the country and its regional influences. Many of its architects, however, floundered in direction and the "school" dissipated. Throughout our lifespan, we have steadfastly maintained the promotion of Australian design, while constantly pursuing new attitudes and techniques to achieve that aim.

Our method for sustaining contemporary relevance is to persistently review and understand the history of the country's architecture. Barely 200 years old, it has been subjected to many influences, firstly from Britain, then America, then internationalism generally. A better understanding of Aboriginal cultural history and closer ties with Australia's Asian neighbours are now being fostered. Australia, like many countries, is becoming increasingly multicultural; however, the cultural forces which shape our society have to adapt to a land distinct from any other in climate, geography and history. The Australian continent is a vast island of dramatically varied terrains, each demanding widely divergent solutions which lend themselves to innovation and improvisation.

The roots of the architecture illustrated in this book are in the environment, both natural and built, and in the Australian vernacular. The early woolsheds and barns, while being directly responsive to their function, the landscape and the climate, were remarkably innovative in form and they nearly always expressed their structure. Our architecture is an intuitive response to this unpedigreed architecture, recognisable as having an innate spirit of place and the potential for evolving into a contemporary architecture of enormous spirit and vitality. We have often reinterpreted it to respond to contemporary and urban contexts, to newly available technologies and to emerging issues, but a constant course has been steered toward solving problems of design in a direct and honest manner with poetic qualities derived from structure and envelope rather than from applique.

Ours was one of the first practices in Australia to embrace the relevance of the vernacular. We endeavoured to translate its romantic qualities into a more human architecture than was generally prevalent in the early 1960s, our earlier buildings being rather more direct interpretations than the later. The C.B. Alexander Agricultural College at Tocal perhaps epitomises this quest. It is a brick and timber structure reflecting many aspects of earlier precedents—craftsmanship, open additive planning, structural expression and repetition, use of indigenous materials, and harmony with the landscape. It is, we believe, an architecture which has stood the test of time, remaining relevant some 30 years later.

One of the most satisfying pursuits has been in steel structures. As with the use of timber, there has also been a characteristic Australian tradition in the use of steel, in the early wind devices, prefabricated sheds and water towers. They tended to have an extraordinary skeletal quality, using minimal steel structure, and most were simply clad in corrugated iron. When we began using steel, we felt that its versatility and expressive qualities had not been fully explored in contemporary Australian architecture.

The National Athletics Stadium in Canberra and its associated National Indoor Sports and Training Centre were the first of our schemes to explore the minimalist use of steel. In the stadium, we endeavoured to create the effect of a roof hovering over the landscape using masts and cables to lighten the structure in a way not possible with timber supports. For the Sports and Training Centre, we used great sentinel steel columns and supported the roof on cables slung between them. In both buildings, there is a delight in seeing the structural forces at work, clearly displayed, yet with a grace and ease belying their complexity.

These projects were in many ways catalysts for later schemes in which other potentials of steel have been explored. Despite its hardness, steel is surprisingly malleable and we found that we could easily mould, sculpt and carve out forms to reflect or express a particular context. The cascading vaults of the National Maritime Museum, for instance, are dramatically different from the skeletal frames suspending the Sydney Exhibition Centre, yet both are designed to convey maritime themes while reflecting the industrial context of Pyrmont. The National Tennis Centre's emblem is its movable steel roof, but our main objective was to reflect the neighbouring skeletal building peaks such as on the Victorian Arts Centre, the city towers and the lighting stanchions of the Melbourne Cricket Ground. One of the most exciting explorations into the possibilities of steel has been for the Museum of New Zealand competition of 1988, where the materials and forms were used to resolve immediate relationships and to create metaphors for less tangible connections, especially those relevant to Maori culture.

Another project that became a catalyst for later work, and in a sense epitomised our pursuit of contemporary indigenous idiom, was Yulara Tourist Resort at Uluru (Ayers Rock). Located in the desert heart of the country, remote from other population centres and from conventional services, this project required qualities of improvisation for which Australians have a recognised reputation. The ingredients were there to create a characteristic Australian town physically, socially and culturally.

Yulara differs from archetypal Australian towns which traditionally are main street towns accessible by vehicle. The township of Yulara winds gently through a serpentine valley between sand dune ridges, with movement between components being entirely pedestrian. The design elements respond to the prevailing conditions, with solar collectors over much of the roofscape providing energy to the town, and double layers of fabric membrane cooling internal spaces. Hypar-shaped tent structures, developed for protecting pedestrian ways, are simple shade devices recalling early lightweight shelters.

The project reinforced a number of concerns which we had considered important for many years. These included the need for energy conservation, for landscape and colour to reflect immediate context, for preservation of natural landscape, and for the integration of art and architecture. Colour is used to particular advantage at Yulara: for example, the reds and ochres of the desert are used on walls and bases to camouflage their presence but are graded from dark to light towards the roofscapes where stark white sail structures reflect the cumulo-nimbus cloud formations characteristic over Ayers Rock.

Yulara reinforced the practice's reputation for being able to handle large projects in both master planning and architecture. It has an urban structure, a resonance with the landscape, and it involves innovation and originality. The principles used to form Yulara can be seen in the Sea Cities projects for Kuwait, a series of "urban" islands interspersed with mangrove islands which filter the water and generate natural ecosystems. These islands are created by excavating the mudflats spilled out by the Tigris and Euphrates rivers. The effect is that of a "green" city contrasting with the desert interior, using ecology that once existed in the Persian Gulf.

Throughout the world, existing cities are simultaneously re-evaluating how far development should spread. Many cities are losing their historic identity as previously separated urban centres merge to form amorphous conurbations. In Australia, were it not for national parks, Sydney, Newcastle and Wollongong would undoubtedly merge, and in Brisbane, the Gold Coast and Sunshine Coast have already spread to join the metropolitan area. Inner urban renewal has become the late 20th century focus, even though we are now witnessing some poor outcomes overseas, especially where congested traffic and transport remain unrelieved. In Sydney the Pyrmont renewal project, following Darling Harbour's revitalisation, and in Brisbane the Newstead Teneriffe urban renewal project, are major initiatives with which our practice is involved. Both are planned as identifiable urban communities rather than as mere extensions of city centres. While principally intended to revitalise inner urban fringe areas through residential activity, emphasis is placed upon retaining existing landscape and historic fabric, much of the latter being converted for retail, employment and educational facilities serving the precincts.

The housing projects illustrated in this book represent a variety of explorations into appropriate forms and relationships, a key objective being to "de-institutionalise" public housing. A selection of both private and public urban housing is illustrated, showing little distinction between them. The primary emphases are on the definitions of private and communal space, the interface with the public street, and the opportunity for individual self-expression by the occupants. Part of our search is for forms and symbols with which people already identify and which they value, sometimes at the expense of our own predilections.

There is a difference in designing individual houses, although many issues such as context and environment remain important. Working directly with clients and eventual occupiers provides us with the opportunity of fulfilling those aspirations most important to them, and it is one of the reasons that we maintain a regular contingent of this type of work. A considerable degree of experimentation is also undertaken, sometimes as a precursor to other large projects, in other cases in relation to theories being developed.

One of our current important projects involves the Sydney 2000 Olympic Games venues. Our present involvement includes the sports facilities master plan, the aquatic centre for swimming events and the support stadium for the major athletics venue. These projects are genuine tests of ingenuity since the site, Sydney's old abandoned abattoirs in the middle of the city's western suburbs, offers little environmental encouragement. Our proposal re-creates a rural Australian landscape which typically comprised undulating, meandering hills and long, winding tracks. This character is repeated by moulding the flattish expanse into a series of serpentine berms and pathways in patterns reminiscent of traditional Aboriginal dream trails, in a deliberate attempt to convey to the rest of the world qualities that are inherent in Australian culture and environment.

Although large, the buildings are submerged within the topography so that only the roofscapes are apparent from beyond the immediate site. Steel structure is used in as light a filigree as possible, so that the roofs appear to hover over, and seem unconnected to, their bases. While the landscape itself is an abstraction of typical regional geography, these buildings are intended to convey broader national themes about the relationship of architecture and landscape.

Several previously unpublished works are illustrated here which we believe maintain our philosophies but explore new directions in design. These include the Brisbane and Cairns convention centres in Queensland. Their difference in form, both from each other and from their Sydney equivalent, also demonstrates our concern for designing to context. A number of similarly exciting projects are occurring in Western Australia, Victoria and South-East Asia. They include large-scale master planning, the work at Joondalup City Centre near Perth, and the Singapore Telecommunications Tower.

For us, Australia has an irrepressible identity. It is the world's largest island country and from the air, the undulating waves which roll into its eastern seaboard from the Pacific Ocean seem to continue across the interior in the red sand dunes, before re-emerging in the Indian Ocean westwards. The diversity of the country's environments is apparent from south to north—the cool rainforests and rugged terrain of Tasmania, the dramatic and rugged coastline of Victoria, the savanna lands and seemingly endless ranges lining the east coast, the brutal and sparse desert interior mysteriously pockmarked by huge rocks and canyons, and the humid sweltering tropics through Queensland and the north, are all distinctive.

Our contention is that the culture of a people reflects the character of the landscape. The vernacular architecture of the last century well illustrates this point as it not only adapted itself to different regions but reflected its inhabitants' lifestyles. The veranda, or perimeter space around buildings, for example, has become symbolic of the Australian character. The landscape and climate, alien to the early settlers, generated qualities of personal character for which Australians are renowned and are repeatedly described in both historic and contemporary literature.

No doubt some viewing this book will see an extraordinary diversity of form and character; others, hopefully, will see a thread woven through the work demonstrating a rapport between the natural and the built environment. Consistently, we search for solutions that are both pragmatic and poetic, and which advance the art of architecture.

Selected and Current Works

Public and Commercial Buildings



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- 20 Australian National Maritime Museum
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- 30 1 Pacific Highway
- 32 Australian Pavilion
- 34 The Cornerstone
- 36 Joan Sutherland Performing Arts Centre
- 38 Westralia Square
- 40 Gloucester Street Offices
- 42 Museum of New Zealand
- 46 Joondalup Rail Station
- 50 Brisbane Convention and Exhibition Centre
- 54 Singapore Telecommunications Tower
- 56 Cairns Convention Centre

Sydney Exhibition Centre

cladding panels and glazing

Design/Completion 1985/1988
Darling Harbour, Sydney, New South Wales
Darling Harbour Authority/Leighton
Constructions
25,000 square metres plus 1,000 car spaces
Concrete base and steel superstructure, steel

The Sydney Exhibition Centre was the first major exhibition centre to be built in Australia and it comprises five interconnected halls, each of 5,000 square metres. It is one of three public buildings undertaken by the practice in the Darling Harbour Redevelopment Area adjacent to Sydney's central business district and constructed to celebrate Australia's 1988 Bicentenary.

The concept for the centre principally arose from four objectives. The first was to continue the tradition of structurally innovative exhibition centres dating back to Joseph Paxton's steel, wood and glass Crystal Palace in London. The second was to establish an integral relationship with a new park stretched along one frontage. Thirdly, it sought to convey a distinctive maritime theme conducive to a historic harbour port, and finally it needed to achieve 100 metre spans without resulting in a massively scaled edifice.

Continued

