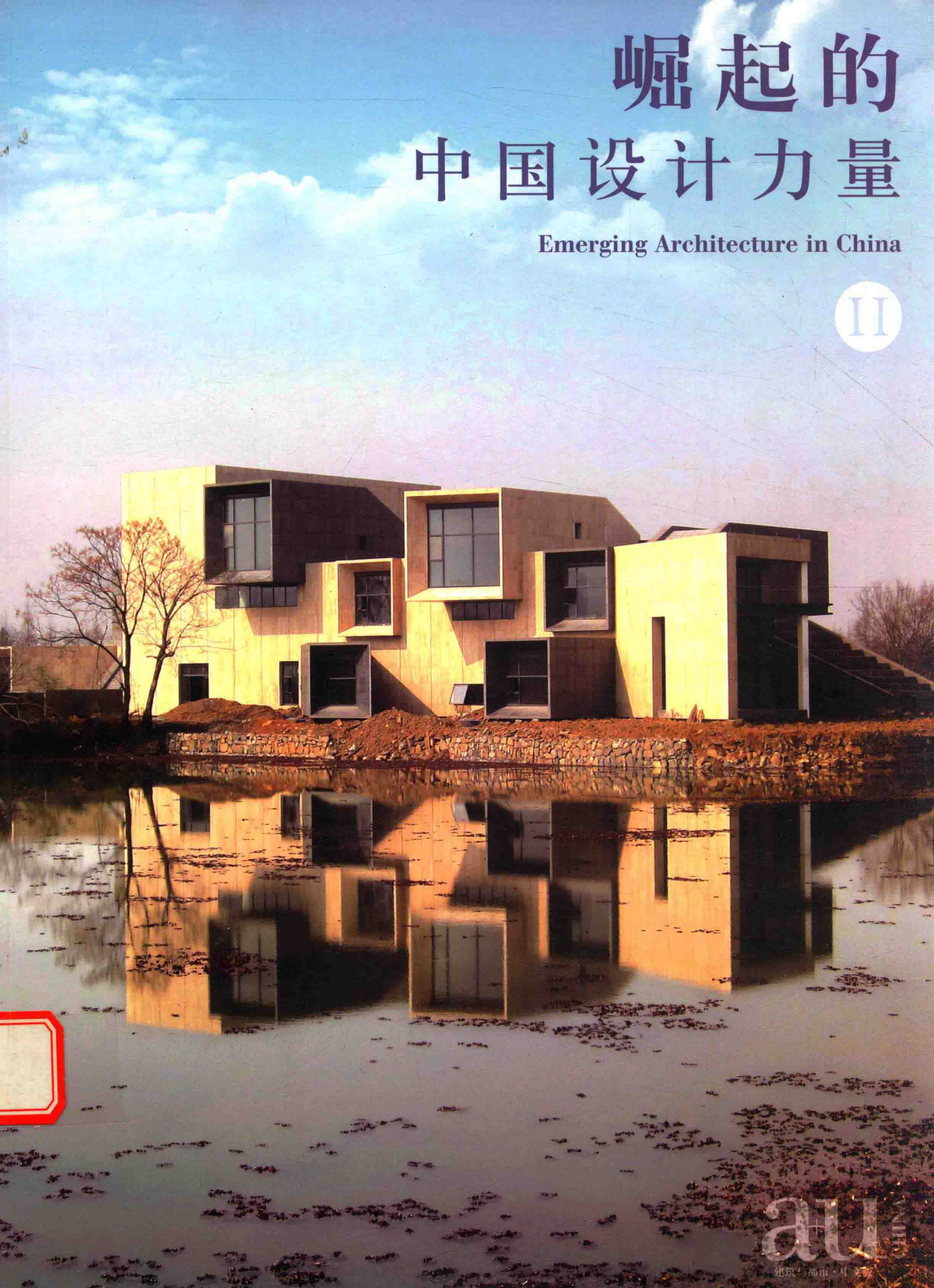
崛起的
中国设计力量

Emerging Architecture in China

II



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建筑与都市·中文版

崛起的
中国设计力量

Emerging Architecture in China

II

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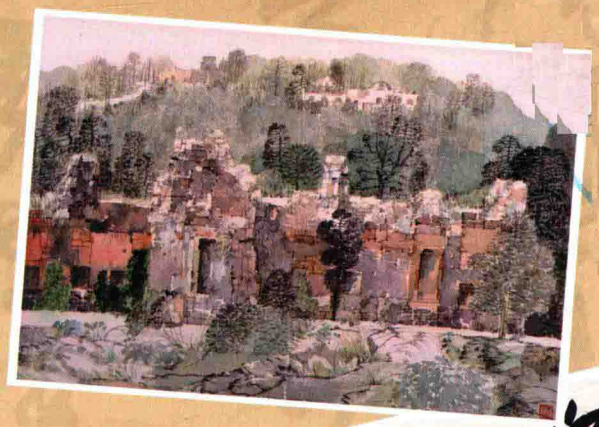

中国当代书画名家

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深圳市建筑科学研究院的绿色建筑设计

Green Architectural Design of Shenzhen Institute of Building Research Co., Ltd.

绿色建筑设计

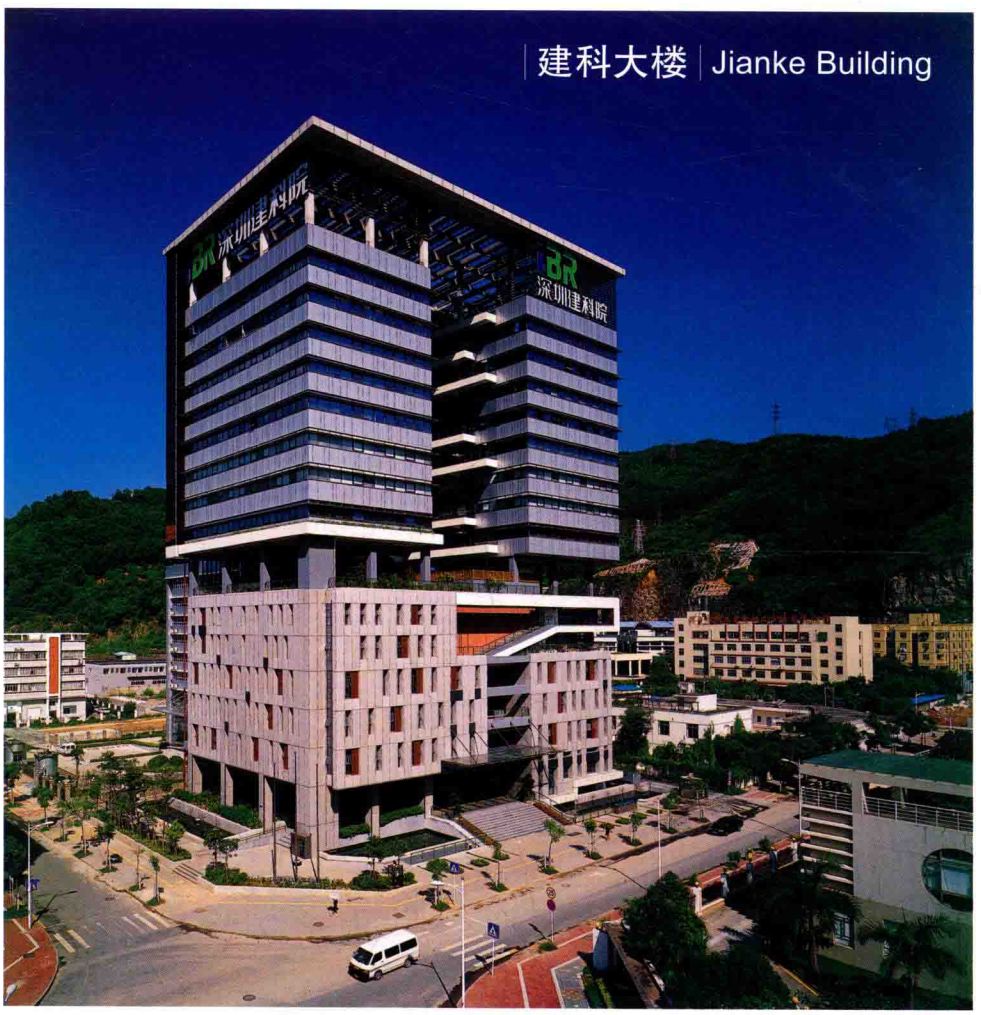
深圳市建筑科学研究院长期从事绿色建筑的研究，其建筑设计特色便是科研与设计紧密结合，科研成果辅助建筑设计，前期评估，后期验证。

经过长期探索实践，深圳建科院提出了“共享设计”理念，其核心内涵有两点：建筑设计是个共享参与权的过程，要体现权利和资源的共享，关系人共同参与设计；建筑本身是一个共享平台，不仅提供健康舒适、资源高效利用的构筑物，实现多方共赢，还要引导社会行为和人文。“共享设计”最终将实现人－建筑－环境的和谐共享。

Green Architectual Design

This institute has been engaged in green building research for long, with architectural design features of close connection between scientific research and design, assisting architectural design with scientific results, from preliminary stage evaluation and verification at final stage.

Through long-term exploration and practice, Shenzhen IBR put forward the concept of “shared design”, with two core connotations – Architectural design is a process of shared participating rights, in order to realize the sharing of rights and resources relevant people shall participate in the design process; The building itself is a shared platform, which shall not only provide a healthy and comfortable structure with high efficient utilization of resources, attaining all-win results, but also guide social behavior and humanity. “Shared design” would finally realize the harmonious sharing of people, architecture and environment.



建科大楼西立面

建科大楼六楼空中平台

新型城镇化滚动式开发实践——深圳国际低碳城启动项目

Practice of New Urbanization Rolling Development – Initiation of Shenzhen International Low-carbon City

DMU: Shenzhen International Low-carbon City planning and construction leading group
Client: Shenzhen SEZ Construction & Development Co., Ltd.
Construction Unit: Shenzhen Longgang District Construction Bureau
Planning Area: 97 ha
Project Date: 2012.10–2013.3


核心启动区建成景象


核心启动区鸟瞰

深圳国际低碳城项目是2012年5月李克强总理与欧盟委员会主席签署的中欧可持续城镇化合作伙伴旗舰项目。该项目肩负着为国家低碳发展探路、为国家应对气候变化国际谈判提供重要战略支点的使命。

结合项目时间紧、各种工作并行开展的现状，该项目创新开发建设新模式，提出“滚动式”开发建设。改变传统一次开发建设的模式，充分利用现有闲置空置基地，修复生态地貌、生态、景观，沿丁山河岸建设生态型的临时建筑和农业园艺，满足低碳城低碳形象展示、国际会议交流、创新低碳技术展览及启动工作办公配套等需求。同时利用周边现有工业厂房和村落建筑进行绿色低碳改造，快速为首批有意向入驻的低碳企业、公共技术平台提供基本完善的工作、生活配套条件。迅速使片区初具低碳城小而全的综合示范形象。

Shenzhen International Low-carbon City is the Sino-European sustainable urbanization partnership flagship project signed by Premier Li Keqiang and Chairman of European Committee in May 2012. This project shoulders the responsibilities of exploring the way for national low-carbon development and providing important strategic supporting point for the nation to tackle international negotiations on climate change.

Combined with the tightness in project timing, and in need parallel implementation of multiple tasks, this project initiated the “rolling” development and construction mode. By deviating from the traditional modes of linear construction, this project fully utilized the current vacant land within the vacinity, repaired ecological landform, ecology and landscapes and constructed ecological temporary buildings and horticulture along the bank of Dingshan River. Satisfied the requirements of presenting appropriate low-carbon city image, international conference communication, innovative low-carbon technology exhibition and initiating supporting office facilities. At the same time, the project made use of the existing industrial factories and village buildings in the area for green low-carbon renovation. These buildings would provide comprehensive work and life supporting facilities for the first batch of low-carbon factories and technology platforms to take root here. Instantly, this tiny district will transform into a miniature comprehensive low-carbon city.


客家围屋


厂房改造


四合院


综合服务中心

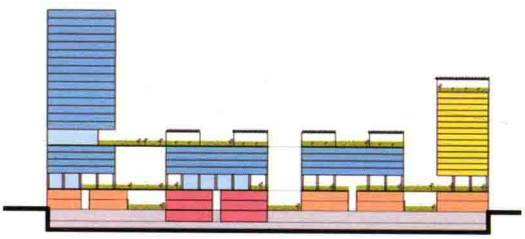

临街外立面

项目位于深圳市高新技术产业园南区，是深圳市“十二五”期间战略性新兴产业基地和集聚区建设的重点工程项目。建成后将成为集总部、商业、住宅、和生活服务设施于一体的国际一流高科技产业园区。项目容积率 6.09，同步建设，分期竣工。

参与项目建设的设计单位超过 20 家，如何实现技术的协同、空间的协同、在限定的时间内达成项目总体目标是一个重大而复杂的系统工程。深圳建科院作为项目的技术总协调单位和设计监理单位根据共享设计的理念，在大型项目的技术管理和高密度城市的低冲击开发方面做出了一定的探索。

在具体方法上，通过空间控制总图控形态、细化的技术标准控细节、IT 化管理平台控沟通。设计过程全面采用创作坊模式，相关单位单位、技术专家、业主、市民全程参与设计过程，并对设计成果提出优化建议，通过相互促动和提升，设计不再是建筑师的个人作品，而是大众广泛参与的作品。技术策略上，提出以生态为核心的“第三代园区”，集生态产业、生态环境、生态经营于一体，注重经济、社会与环境三大效益的平衡，实现生态、经济和人的和谐共赢。


深圳湾科技生态园园区活力中心


分层设计，垂直城市示意图


通过园区通风、声环境模拟指导规划布局和景观设计

高密度城市下的绿色园区实践——深圳湾科技生态园

Practice of Green Industrial Park in High-density City – Shenzhen Bay Eco-technology Park

Construction Unit: Shenzhen Investment Holding Co., Ltd.
Design Director, Green Building Consultant, Technical Adviser: Shenzhen Institute of Building Research Co., Ltd.
Site Area: 203 100 m^2
Total Buiding Area: 1 870 000 m^2
Project Date: 2011


深圳湾科技生态园总体鸟瞰

This project is located in the South District of the Shenzhen High and New Tech Industrial Park as the key project of strategic new industrial base and agglomeration region construction of Shenzhen. After completion, this project would be an international top level high-tech industrial park integrating headquarters, business, residence and life service facilities. The floor to area ratio is 6.09, The project construction would be synchronized with different completion dates.

There are over 20 design entities participating in the project construction. It is a grand and complex systematic project to achieve technical collaboration, spatial synergy and attain project's overall objectives within the limited time. As the project overall coordinator and the design supervising unit, based on the concept of shared design, Shenzhen IBR explored the technical management of large scale projects and low impact development of high density city. Regarding methodology, the overall spatial design was managed through careful consideration in space control. Details were controlled through specific technical standards, and communications were managed through IT management platform. The design process were in workshop mode. Relevant units, technical experts, property owners and citizens participated in the entire design process and resulted in some suggestions that optimized the process. Through mutual motivation and interaction, the design is no longer the architect's personal work, but of the public's extensive participation.

As for technical strategies, the project put forward the concept of "Third Generation Industrial Park" which focus on ecology, incorporating ecological industry, ecological environment and ecological management into one system.

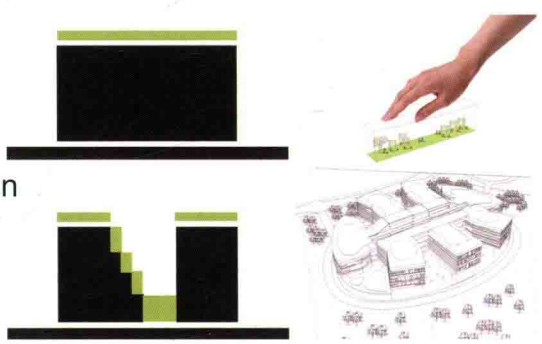
Stressed on the balance of economy, society and environment thus realized the harmony and all-win state of ecology, economy and mankind.


鸟瞰效果图

寒冷地区低密度城市下的绿色建筑实践——北京中关村软件园孵化加速器

Green Building Practice of Low-density City in Cold Region – Beijing Zhongguancun Software Park Incubation Center

Construction Unit: Zhongguancun Software Park
Site Area: 40 400 m^2
Total Building Area: 57 000 m^2
Project Date: 2012–2014


北京中关村软件园孵化加速器中庭设计分析图

在“共享设计”理念指导下，采用被动优先、主动为辅的绿色设计手段进行建筑形态的构建解析，从高绿地率的生态的原始场地环境，到敏感的应场地条件而生成的建筑形态，与环境高度融合的建筑犹如从场地当中自然地生长出来。通过设计改善绿视率、空气龄等绿色建筑科学指标，使办公环境和空间价值大幅提升，员工的工作效率和生活品质得以提高。深度研究孵化器功能需求和目标企业的形态特征，在所有可能的租赁模式下均能保障所有办公空间拥有较好的自然通风与采光，并创造出灵动丰富的共享空间，改变呆板单调的空间形态和工作环境，为体现人性关怀的绿色工作模式提供最大可能。


主入口沿街效果图

Guided by the concept of “Shared Design”, the design team applies green design approaches with passiveness as the priority and activeness as the assisting element to implement the construction analysis of building form. From the ecological and original site environment of high ratio of green space, to the sensitive architectural format borne from the site conditions, the buildings highly integrated with the environment almost seemed to have grown naturally from the site.
By improving green view ratio and air age, the value of office environment and space are greatly improved as well, and the staff work efficiency and quality of life were also uplifted.
This project carried out comprehensive research on functional requirement of incubation center and target enterprises. Under various leasing modes, all office spaces could enjoy plenty of natural ventilation and lighting. The goals are creating vibrantly rich shared space, and changing monotonous and dull working environment into greenand lively ones with the greatest possibilities of comfort and care.

上海江欢成建筑设计有限公司
Jiang Architects & Engineers

上海江欢成建筑设计有限公司（简称 JAE）是以中国工程院江欢成院士命名并主持的具有建筑工程设计综合甲级资质的建筑设计公司。1998 年，同名事务所于上海现代建筑设计集团内成立，2005 年改制成股份制民营有限公司，JAE 的前身是华东建筑设计研究院东方明珠设计组、金茂大厦顾问组、雅加达塔设计部和第五设计所。

JAE 目前有 70 多位员工，分为建筑、结构、机电设计三个工种。队伍精干，管理有序，技术力量雄厚，工种之间配合默契。项目以技术含量高的公建为主，尤其擅长于高层 / 超高层建筑。公司以设计创新、服务优质为立身之本。

江春于 2010 年初加入，他曾任职英国某著名设计事务所设计总监，现任职 JAE 总经理 / 总建筑师，是英国皇家及香港注册建筑师。公司目前在他的带领下，全力打造国际化的质量，专业化的服务，追求艺术与技术的完美结合。

Jiang Architects & Engineers (JAE) is Chinese Grade A qualified architectural design firm. The firm is established by and named after professor Jiang Huancheng, a member of Chinese Academy of Engineering. It was set up in 1998 as a subsidiary of Shanghai Xian Dai Architectural Design Group. In 2005, it was privatized and became an independent company. Its core team came from the design team for Shanghai Oriental Pearl Tower, Jakarta Tower and the consulting team for Jin Mao Building.

JAE is a multi-discipline office that has architectural, structural and MEP engineers. The company has more than 70 staffs. It is a well structured, technically strong design company. The company portfolio covers many technically demanding public buildings such as office / hotel / retail / civic building etc. High rise tower is one of its expertise. It is a design + service lead office.

In 2010, Jiangchun, a former design principal of a well known UK design firm joined JAE as the managing director and the chief architect. Under his leadership, JAE is now being upgraded into a local design firm with international quality, professional service and is pursuing a perfect combination between art and technology.

斐讯通信研发基地一期

Phicomm Communication R&D Center Phase 1

上海斐讯生产园区的总建设目标为“立足上海、服务全国、走向世界的集技术创新、成果转化、科技生产一体的综合性产业技术生产机构”。本项目为斐讯一期园区，基地位于上海市松江工业区西部科技园区思贤路北侧，东面为文吉路，西面临接斐讯二期工程用地。规划设计原则为：以人为本、整体和谐、经济实用、现代简洁。总体规划在此基础上确定了园区的规划布局为：一心二轴三绿带，将园区自然分为三个区域。在这一规划结构中，综合平衡了园区景观、建筑组团布置、空间群体设计和日照与通风。园区建筑单体包括 1 至 6 号楼，其中 3 号楼为办公楼，其余均为生产用房。总建筑面积约 11.3 万平米，项目用地约 69 008 平方米。

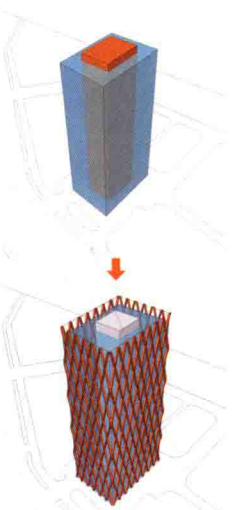
Location: Shanghai, China
Main Use: Office building
Site Area: 69 008 m^2
Total Building Area: 113 000 m^2

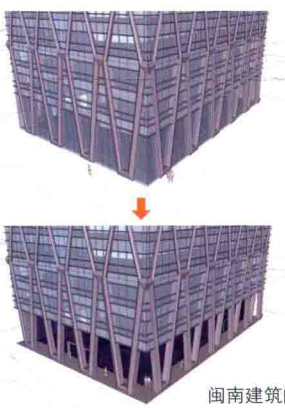
Shanghai Feixun Industrial Park sets the general construction goal to be “a comprehensive industrial and technological production institution keeping a foothold in Shanghai, servicing the whole nation and stepping to the world, while integrating technological innovation, achievement transformation and production of science and technology”. This project is Feixun’s Phase 1 park area, which is located on the north of Sixian Road in Shanghai Songjiang Industrial Park’s western science park, and on the east is Wenji Road, while the west side neighbors Feixun’s Phase 2 construction land. The design principle for the planning is: human-oriented, overall harmony, economical and practical, modern and concise. Based on this, the overall planning confirms the garden’s planning layout: one core, two axes and three greenbelts, naturally dividing the garden into three areas. The planning structure comprehensively balances garden landscape, architectural cluster layout, space whole design, daylighting and ventilation. The building single elements inside the park include building No. 1~6, among which No. 3 is an office building, while the others are production spaces. The total building area is about 113 000 m^2 and the project land is about 69 008 m^2.

厦门世侨中心

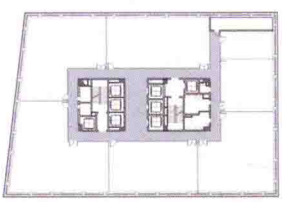
Xiamen WOCICC

Location: Xiamen, Fujian, China
Main Use: Office
Site Area: 3648 m^2
Total Building Area: 50 000 m^2





闽南建筑的符号——骑楼
Architectural Symbol of Southern Fujian – Sotto Portico



标准层平面图
Standard Layer Floor Plan

本案位于厦门鹭江道，为单栋 100 米的高层办公楼，基地面积 3648 平方米，地上共 23 层，地上建筑面积 35 475 平方米，地下 4 层车库，全钢结构。

设计理念追求艺术和技术的完美统一。为了提高标准层的实用率，我们将抗侧力结构体系外移，形成一张全钢结构外网，这张外网以 4 层高的长六边形为标准立面单元，内嵌玻璃幕墙。六边形的边框既起到遮阳作用，也增加了立面的立体层次感。

建筑底层幕墙收进 3 米，配合外立面由上而下结构构架，自然形成了建筑入口，又充分呼应了闽南骑楼的建筑文化。

The project sits along Lujiang Road in Xiamen. It is a 100 m tall single tower standing on a site of 3648 m^2. It is a 23 storey office tower with 4 basement car park. Above ground GFA is 35475 m^2. It is full steel structure.

The design of the building pursues the integration of technology and art. In order to increase the efficiency of the typical floor plan, we shifted the lateral load baring structure outwards and made it a steel net. The net has a standard module of an elongated hexagon that is 4 storey's tall with the curtain wall filled in. The frame of the hexagon is the structure, an elevation feature and acts as a sun shading device at the same time.

The architectural ground floor curtain wall has 3 meters setback, accompanied with the outer facade's top-down structural framework, naturally forming the architectural entrance and fully echoing the architectural culture of Southern Fujian Province's Sotto Portico.

雅门建筑设计公司（上海）／刘伟彦、许荣江建筑师事务所（台湾）

Architects Planners Associates (Shanghai)
Wei-Yen Liu and Jung-Chiang Architects Studio (Twiwan)
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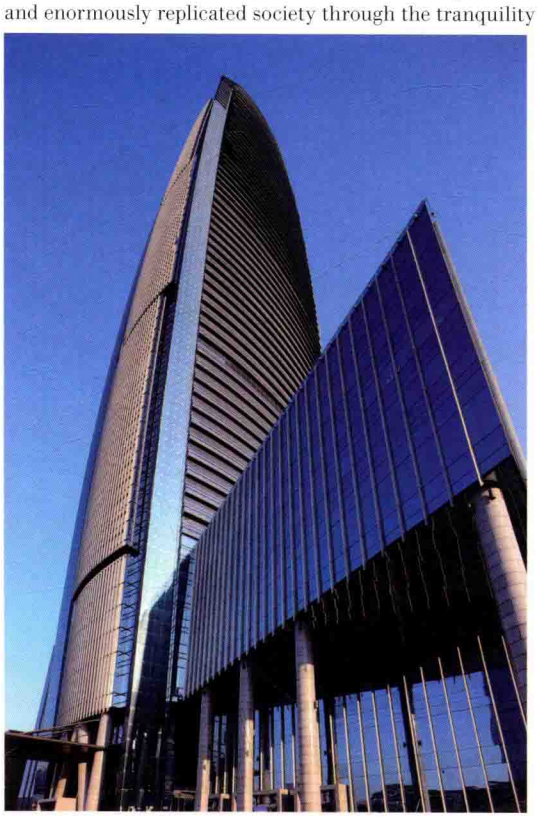
雅门成立于 1988 年，由刘伟彦、许荣江两位建筑师主持，雅门团队包括台湾雅门建筑师事务所、上海雅门建筑设计有限公司、上海筑间景观空间设计，团队成员约 60 人，团队经验丰富，服务热忱。在整合各专业领域——城市、绿建筑、生态景观、室内、构造的过程中，以多元文化价值探索自主性文化主题的形成。

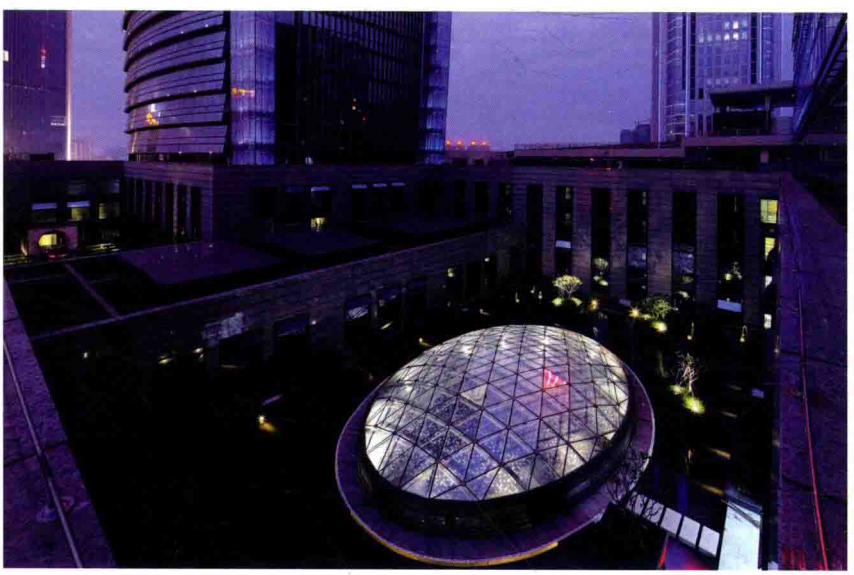
我们主张：空间即社会，设计即反思，建筑即营造诗意的栖居；换而言之，设计的核心价值就是以真实替代虚幻，并以原我沉静的力量面对大量复制而流动的社会。

Archiman Architects, including Archiman Taiwan, Archiman Shanghai, and Archiman Landscapes, was established by Wei-Yen Liu and Jung-Chiang in Taichung, Taiwan in 1988. Archiman Architects employs a large number of senior architects who not only have extensive experience in complex projects but also have value in multiculturalism. Archiman Architects integrates all fields of professionscivic – green building, ecology, landscapes, interiors, and constructs – into a highly qualified work, and most importantly, explores the creation of autonomously cultural motif.

Archiman Architects believes that "space is society; design is critique; and architecture is building poetic habitation". In other words, the core value of design is to replace illusion by reality, and to face the flowing and enormously replicated society through the tranquility of "real self".



摄影：赖建作



本项目获得美国LEED绿色建筑金级预认证

台商大楼 | TBA Tower

Location: Dongguan, Guangdong, China
Project Date: 2004–2013
Proprietor: Jinmao Building Development Company
Main Use: Shopping mall, office, SOHO, city club
Site area: 26 674.2 m^2
Total floor area: 276 387.37 m^2
Floors: 68 floors above the ground and
4 floors underground
Main structure: Steel reinforced concrete