



# 第三届艺术与科学 国际作品展作品集

A WORKS COLLECTION OF THE 3RD ART AND SCIENCE WORKS INTERNATIONAL EXHIBITION

第三届艺术与科学国际作品展暨学术研讨会筹备办公室 编

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2012.11.1-2012.11.30

第三届艺术与科学国际作品展暨学术研讨会筹备办公室 编

Information 信息 Ecology 生态 Wisdom 智慧

# ART AND SCIENCE



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#### 展览地点

中国科学技术馆

#### Support Units

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China Association for Science and Technology
China Federation of Literary and Art Circles

#### **Organizers**

Tsinghua University

China Science & Technology Museum

#### Co-organizers

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Academy of Arts & Design of Tsinghua University

Ruyi Tech Group

#### Cooperation with

JOMOO Group Co. Ltd.
Futian District Government of Shenzhen
Samling Elegantliving Group

#### **Exhibition Time**

November 1, 2012 - November 30, 2012

#### **Exhibition Venue**

China Science & Technology Museum

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# 致辞

2001年,在清华大学九十周年校庆之际,李政道先生和吴冠中先生发起举办了首届"艺术与科学国际作品展暨学术研讨会",充分彰显了艺术之美与科学之美的碰撞与融合。艺术与科学,这一深邃而开放的命题,吸引着越来越多的学者潜心地探索、研究和实践。

艺术与科学,虽然角度不同、方法有异,但其目标都是对真理的求索。我们常说科学求真、人文求善、艺术求美,其实艺术中也有科学性,科学中亦蕴涵着艺术性,两者都是推动人类文明发展和社会进步的重要力量。

科学与人文、艺术的相互补给、相互映照,也为人才培养事业提供了源源不断的动力。作为一所综合性、研究型、开放式的大学,清华大学不断地推动着人文精神与自然科学的融合,促进艺术学科与理工学科的互动,提倡开展交叉性创新研究,鼓励学生在接受专业教育的同时,加强其他学科知识的贯通融会,提升综合能力、塑造完整人格。

在清华大学新百年的开端,2012年的初冬,"第三届艺术与科学国际作品展暨学术研讨会"隆重开幕。这必将为促进未来高等教育领域中艺术与科学的融合,为人才培养、学术研究以及人类生存质量的提升,开拓更为广阔的空间。衷心希望艺术与科学展能历久弥新,不断焕发新的生命力,为科学与艺术的进步、为中外思想和文化交流贡献一份力量。

除好

清华大学校长

In 2001, on the occasion of 90th anniversary of Tsinghua University, Mr. Li Zhengdao and Mr. Wu Guanzhong initiated the 1st Art and Science International Exhibition (Symposium). Considerably, this event demonstrated the interaction and integration between the beauty of art and science. The art and science, being a profound and open proposition, has attracted more scholars to plunge themselves deeply into exploration, research and practice.

Both the art and science, though different in perspective and method, aim to explore the truth. We often say that the science seeks for truth, the humanity seeks for goodness and the art seeks for beauty, but in fact, scientificity does exist in art and artistry does exist in science, and both are major force to promote the human development of civilization and social progress.

The mutual complementation and reflection of science with the humanity and art also gives unfailing impetus to the cause of personnel training. Being a comprehensive, research and open type university, Tsinghua University constantly promotes the integration of human spirit and natural science, enhances the interaction of the art subjects with science and engineering subjects, advocates the development of cross and innovative research, and encourages students to strengthen the mastery of other subjects while attending professional education, improve the integrated ability and shape the personal integrity.

At the outset of a new century for Tsinghua University, the 3rd Art and Science International Exhibition (Symposium) opened solemnly in early winter of 2012. It will surely develop a broader space for the future integration of art and science in the field of higher education and the promotion of personnel training, academic research and quality of human life. It is sincerely hoped that the art and science international exhibition will stand long term test, take on a new look and contribute its part to the progress of art and science and the exchange of thoughts and cultures in China and foreign countries.

Chen Jining

Chancellor of Tsinghua University

## 致辞

在北京一年中最美丽的季节,这本蕴含着海内外艺术与科学无限魅力的作品集与您见面了。"艺术与科学国际作品展暨学术研讨会"已走过了十个年头,成功举办两届,这不啻是对海内外科学与艺术相结合形式的最好见证。

应该感谢李政道和吴冠中二位先生。他们以杰出的业界成就和光辉的人格魅力将人类最伟大的作品——科学与艺术兼容一体,他们站在爱因斯坦、赫胥黎等大师的肩膀上,给我们以启迪和思索。正是有了他们的远见卓识,我们才得以在十年内初沐艺术与科学相结合而带来的光华。

应该感谢文化部、中国文联、清华大学等相关单位。十年来,为促进艺术与科学的和谐发展,他们大力协同、 孜孜以求、不懈努力,树立了中华民族在新时代文化艺术新的内涵和发展方向。

应该感谢国内外科学家、艺术家为社会生活、科技前进和艺术繁盛作出的不竭贡献。他们关照心灵、执 著创新,发现和创作着跨越时空的文化精品,挖掘着人类对真善美的无限追求。

在党和国家领导人的高度重视下,中国科协作为"第三届艺术与科学国际作品展暨学术研讨会"的支持单位,将与社会各界一道,践行科学精神,推动文化发展,不断培育我国现代科学艺术的宝贵财富,赋予其更新鲜、优秀的内涵。

每一个作品都记录了社会发展的历史脉络,每一个作品都承载着人类文明进步的足迹。能予致辞,荣幸之至。

陈校素

中国科学技术协会书记处书记 中国科学技术馆馆长

CONGRATULATION

In the most beautiful season of Beijing around the year, this works, which contains infinite charm of domestic and foreign art and science, we be presented in front of you. The Art and Science Works International Exhibition Symposium has gone through ten years and has been successfully held for two terms. It can be said to be the best demonstration of the integration between science and art.

We should thank Mr. Tsung-Dao Lee and Mr. Wu Guanzhong. With their outstanding achievements in their respective field and their brilliant charisma, they advocate the combination between the two greatest works of humanity—science and art. They stand on the shoulders of Einstein, Huxley and other masters, giving us inspiration and enlightenment. It is exactly their vision and farsightedness that enable us to bath ourselves for the first time in the glorious light that is brought by the combination of art and science in the past decade.

We should thank the Ministry of Culture, China Federation of Literary and Art Circles and Tsinghua University among others. For the past decade, they cooperate energetically and work diligently and persistently to promote the harmonious development of art and science, thus have established new connotation and orientation for the development of culture and art of the Chinese nation in this new era.

We should thank scientists and artists both at home and abroad for their inexhaustible contribution to the improvement of social lives, progress of science and technology and prosperity of art. They take care of the soul of mankind, persevere in pursuing innovation, discover and create exquisite cultural works that can transcend the boundary of time and space. Their hard efforts have represented the infinite pursuit of mankind toward truth, kindness and beauty.

As a supporter of the 3rd Art and Science Works International Exhibition (Symposium), we China Association for Science and Technology will work together with all walks of life to practice the spirit of science, promote cultural development, keep cultivating the precious wealth of China's modern science and the art and imbue them with more fresh and more excellent connotations.

Each works have recorded the historical development of human society, and each works demonstrates the footprints of the progress of human civilization. I am very privileged to give these remarks.

Xu Yanhao

Secretary of the Secretariat of China Association for Science and Technology

Curator of China Science and Technology Museum

《第三届艺术与科学国际作品展作品集》顺利出版,我感到由衷欣慰。

吴冠中先生曾说:"科学揭示宇宙的奥妙,艺术揭示情感的奥妙。"而李政道先生认为:"科学和艺术的共同基础是人类的创造力,它们追求的目标都是真理的普遍性"。在我看来,艺术与科学是一个充满魅力的命题,同时也是一个时代的话题。清华大学举办"艺术与科学国际作品展",正是顺应历史发展趋势和要求。

清华大学综合性的学科优势、百年历史积淀下的深厚人文底蕴、美术学院雄厚的艺术基础,这些优越条件为科学与艺术的融合互动,构建了独有的创新平台。更重要的是,艺术与科学的互补互动将为清华大学培养拔尖、创新人才提供丰厚的土壤。艺术不仅具有审美功能,还能够帮助学生们超越现实的局限,激发想象力,把不同学科、不同领域结合在一起,这种归纳融合的能力对学生能力的提高是至关重要的。艺术与科学将为学生们提供多种养分,为未来的创新奠基。

2001、2006 年,清华大学先后成功地举办了两届"艺术与科学国际作品展暨学术研讨会",其间,不仅为公众展示了高水平的作品,还通过研讨会的形式汇集了一大批艺术与科学领域的论文,作品与论文交相辉映,成果丰硕,为推动艺术与科学的研究向纵深发展留下了宝贵的财富。本届活动的主题是"信息•生态•智慧",这是一个既切合时代发展脉搏又充满吸引力的主题,在这样的主题下汇集了国内外艺术家、科学家的众多精彩作品。我们在这里结集出版,既是对本届展览的记录,也希望更多的人能够从这里获得灵感和启迪,我想这才是展览的终极意义。

感谢各支持单位的指导,感谢中国科技馆的鼎力支持、各协办单位的热情扶持,感谢所有为展览、研讨 会及系列活动付出智慧和心血的人们。

治维和

清华大学副校长

I sincerely rejoice over the successful publishing of A Works Collection of the 3rd Art and Science Works International Exhibition.

Mr. Wu Guanzhong said: "The science reveals mysteries of the universe and the art reveals mysteries of the feeling". Mr. Li Zhengdao once puts: "The science and art are commonly based on the human creativity, and seek for the universality of truth". In my mind, the art and science is an attractive proposition, and also a topic of the era. So, the art and science international exhibition hosted by Tsinghua University follows the tendency and demands of historical development.

The advantages, including the comprehensive disciplinary supremacy and profound humanism environment marinating in the history of a hundred years of Tsinghua University and the basis of art of the Academy of Arts & Design, build up a unique innovative platform for the integration and interaction of the science and art. More importantly, the mutual complementation and interaction of the art and science provide fertile soil for Tsinghua University to bring up first ace innovative talents. The art not only functions with the aesthetical features but also helps students to surpass the limits of reality, fire up the imagination and integrate different disciplines and fields. This inductive integration is of great importance for students to promote their capabilities. The art and science will feed students with various nutrients and lay a good foundation for the future innovation.

The Art and Science International Exhibition (Symposium) has been successfully held twice by Tsinghua University, respectively in 2001 and 2006. It not only showed high level works for the public but also collected a great number of dissertations in art and science field through symposiums. These works and dissertations contrasted with each other and contributed abundant achievements. They left valuable wealth for promoting art and science research to develop in depth. The theme of 3rd Art and Science Works International Exhibition (Symposium) is the "Information • Ecology • Wisdom". It is in line with the development pulse of times and full of attraction. With this theme, a great number of masterpieces of foreign and domestic artists and scientists were collected. The collection published is not just a record of this event, but with a hope more people can draw inspiration and capture enlightenment from it. In my mind, this is the ultimate purpose of the exhibition.

We are extremely grateful to all supporters for their guidance, especially for the great support of the China Science and Technology Museum and co-organizers. All the wisdom and efforts paid for exhibition, symposium and series activities will be highly appreciated.

Xie Weihe

Vice Chancellor of Tsinghua University

# 前言

2012年11月,我们迎来《第三届艺术与科学国际作品展作品集》的出版,这是继2001、2006年《艺术与科学国际作品展作品集》之后艺术与科学展成果的又一次集中展现。

"第三届艺术与科学国际作品展暨学术研讨会"由中华人民共和国文化部、中国科学技术协会、中国文学艺术界联合会支持,清华大学、中国科学技术馆主办,清华大学艺术与科学研究中心、清华大学美术学院、如意科技集团共同承办,2012 年 11 月 1 日—30 日在中国科学技术馆举行。

本届活动主题为"信息•生态•智慧",旨在汇聚当代国际艺术与科学领域最前沿的研究成果,集合当下艺术与科学领域多元化的认识理念、多样化的表现形式,从信息科学、生命科学和生态科学视角,以艺术美学、生物信息技术和生态智慧为载体,体现人文关怀精神,用新的思路、方法探索未知,创造未来。本届作品展面向全球征集,参展作品来自美国、德国、荷兰、奥地利、法国、西班牙、英国、澳大利亚、意大利、加拿大、厄瓜多尔、丹麦、墨西哥以及中国国内多所艺术院校、研究机构等。参展作品共120余件,包括新媒体艺术、产品设计、建筑与环境设计、视觉传达设计以及艺术创作等体现艺术与科学相结合的科学作品。丰富多样的艺术形式充分体现了科学与艺术相互交融,应和着人类文明的发展进程,共同探寻艺术与科学的理想目标,以视觉的方式展示艺术与科学创造的精神潜质和最新成果。在举办高规格、高水准的作品展览的同时,我们还将举行一系列围绕"信息•生态•智慧"主题的高端研讨会,邀请来自国内外的艺术家、科学家、设计师等就相关研究课题发表演讲、展开交流。

秉承求真、求善、求美的精神,我们致力于将"第三届艺术与科学国际作品展"办成亚洲最具世界水平、 具有较高学术价值和前瞻的高端"艺术与科学"展览活动。希望这本作品集能够带给大家更多、更广泛 的融合性体验、艺术享受、精神思考和思想启迪。

南东

中国文学艺术界联合会副主席 中央文史研究馆副馆长 清华大学美术学院名誉院长

In November, 2012, A Works Collection of the 3rd Art and Science Works International Exhibition will be published. Successive to collections in 2001 and 2006, it is another central achievements display of the art and science exhibition.

Supported by the Ministry of Culture of the People's Republic of China, the China Association for Science and Technology, and the China Federation of Literary and Art Circles, the 3rd Art and Science Works International Exhibition (Symposium) is hosted by Tsinghua University and the China Science and Technology Museum and coorganized by the Art & Science Research Center of Tsinghua University, the Academy of Arts & Design of Tsinghua University, and Ruyi Science & Technology Group. It will be held in the China Science and Technology Museum from November 1st, 2012 to November 30th, 2012.

With the theme of "Information • Ecology • Wisdom", this event assembles the latest cutting-edge research results in the field of art and science, integrates the current diversified ideas and diversified art forms, embodies the spirit of humane care, and attempts to explore and create the future through new thoughts and methods by adopting the perspectives of information science, life science and ecological science and making art aesthetics, biological information technology and ecological wisdom as the carrier. The Exhibition solicits works from all over the world. The works on display come from the art colleges and research institutes in USA, Germany, Netherlands, Austria, France, Spain, UK, Australia, Italy, Canada, Ecuador, Denmark, Mexico and China. Totally, this event assembles over 120 pieces of works in a variety of forms, including new media art, product design, architectural and environmental design, visual communication design, and artistic creations featuring the combination of art and science. These works in a variety of art forms fully reflect the integration of science and art, jointly explore the ideal goals of art and science in combination with the development history of human civilization, and display the spiritual potentials and latest achievements created by art and science in the visual forms. Besides the high-class and high-level exhibition, a series of high-end symposiums focusing on the theme of "Information • Ecology • Wisdom" will also be held, in which the domestic and overseas artists, scientists, designers and other experts will deliver speeches and develop exchanges on relevant research subjects.

In compliance with the spirit of seeking truth, goodness and beauty, we are dedicated to build the 3rd Art and Science Works International Exhibition into a high-end art and science exhibition featuring world level and superior academic interest and prospects in Asia. It is hoped that the collection may come up with more and broader integrated experience, enjoyment of art, spiritual thinking and enlightenment of thoughts.

#### Feng Yuan

China Federation of Literary and Art Circles Vice Chairman

Deputy Director of Central Research Institute of Culture and History and Honorary

Honorary Dean of the Academy of Arts and Design of Tsinghua University