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UNIVERSITY

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'09国际校际 设计作品联展 作品集

PORTFOLIO OF
'09 INTERNATIONAL UNIVERSITIES'
DESIGN EXHIBITION

'09国际校际设计作品展组委会
Organizing Committee of '09 International
Universities' Design Exhibition

中国建筑工业出版社

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'09国际校际设计作品展组委会

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PREFACE

09 International Universities' Design exhibition collects about one hundred pieces of works or research projects of the design faculties in 11 well-known universities as Purdue University and UIUC in USA, Coventry University in UK, Japan Kyushu University, and domestic universities as Hunan University, Zhejiang University, Tongji University, Central South University, East China University of Science and Technology, Southeast University, Nanjing University of Science and Technology. There are various types of works as designs of transports, toys, electronic products, industrial equipments, books, environmental spaces, graphics, etc., and also methods of design and research; from future concept to intimate emotional caring, from design theory exploration to actual structure, materials and process, from the modern style of European and American to East design thinking, the nature of colorful and brilliant design stage in this era is reflected by the works via the space of this exhibition.

Modern design, which has developed more than 100 years, shows a trend of diversification in this era. The properties of different countries, different regions, different cultures, different theories, and different ways are embodied by different designs; the intersection and collision of different types design ideas as eco-design, information design, experience design, sustainable design, humanized design, emotional design, can be achieved by a carrier as design work. The economic globalization trend makes the design of communication urgent and necessary. In this context, design work exhibition, in which the form of communication is based on the design works and can make communication more directly, deeply and abundantly, means providing the most convenient communication channels.

The colleges and universities with design art subjects take the responsibility for educating and cultivating design innovation talents. It is the common goal of design education field to improve the research of design and expand the innovative ways for enhancing the level of design education. As a form of

communication, design works exhibition is a way for mutual inspiration of design ideas, a time for exploration and learning for new design methods, a channel for resources and information changing, a competition place for design results, and a common opportunity for education improvement.

In this exhibition, the exhibitors have a similar feature as being comprehensive university based on the development of engineering technology disciplines; which are organized by the institution deliberately. Based on the properties as with a common or similar background of disciplinary development, encouraging inter-disciplinary exchanges; advocating to strengthen the engineering design in the teaching process for high possibility of product; involving in the actual product development projects of enterprises, the organizer hopes to find common interests of the exhibitors for making this exchange platform more efficient, direct and in-depth.

The portfolio of this design exhibition is helpful for providing space for design communication and propagating advanced design concepts, methods and thought of design educational in a larger context effectively, and contributing to promote the level of design education, format and improve the local design culture in China.

Since the leaders and the teachers of the participations have paid more attention and done a great works before, the works of exhibition and portfolio can be finished successfully. The teachers do collection works of the participations are:

USA, Purdue University, Professor Steve Visser;
USA, Illinois University, Urbana-Champaign, Dr. Deana Mcdonagh;
Japan, Kyushu University, Professor Yoshitsugu Morita;
UK, Coventry University, Dr. Sean McCartan;
China, Hunan University, Professor He Renke, Xiao Dihui, Li Hui;
China, Zhejiang University, Professor Sun Shouqian, Peng Ren;

China, Tongji University, Professor Zhu Zhongyan;
China, Central South University, Professor Dai Duan, Huang Zhiyu;
China, Southeast University, Professor Cui Tianjian;

China, East China University of Science & Technology, Professor Cheng Jianxin, Ye Junnan;

China, Nanjing University of Science & Technology, Professor Zhang Xi, Jiang Lin.

This exhibition is planned and organized by Department of Art and Design, NUST and China Architecture & Building Press; and 4 teachers, Zhang Xi, Li Yajun, Jiang Bin and Duan Qijun, are arranged to contact the exhibitors. In less than a month, the works of the collection and layout design are completed. Because of the short time, heavy task, and the difficulties in communication between different countries, there are some flaws and problems inevitably. Therefore, we hope to get your understanding and suggestion for improvement.

Based on the materials provided by every exhibitors and size requirement of portfolio, the layouts of exhibition and portfolio are mainly redesigned by Wang Hui, a teacher of Department of Design & Art, NUST; furthermore, there are several postgraduate students Liu Jiajia, Zhang Dan, Miao Yingying, Mao Luxi, Cai Yun, Zou Yujia, Li Zhiyao, Pan Wenjuan also involved in the layout design work. Thanks for their hard work here.

In the 25th Teacher's Day in China, we would like to dedicate this portfolio to the teachers working diligently in the field of design education.

Organizing Committee of 09 International Universities' Design Exhibition
Department of Design & Art, Nanjing University of Science & Technology
September 10, 2009

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前言

09国际校际设计作品联展汇集了美国普度大学、伊利诺伊香槟分校、英国考文垂大学、日本九州大学、中国湖南大学、浙江大学、同济大学、中南大学、华东理工大学、东南大学和南京理工大学等十一所国内外知名高校的设计院系的近百件设计作品/研究成果参展。作品包括各类交通工具、儿童玩具、电子产品、工业设备、产品包装、书籍、室内与环境、图形设计……以及设计研究方法；从未来概念到贴心关怀，从设计理论探索到结构、材料与工艺，从欧美设计前沿到东方思维模式，本次设计作品联展用一个空间，透视了当今设计舞台的绚丽灿烂。

现代设计在经历了一百多年的进化之后，在今天呈现出了一种多元化的趋势。不同国家、不同地域、不同文化、不同理论、不同方法，以不同的设计作品体现；生态设计、信息设计、体验设计、可持续设计、人性化设计、情感设计，诸多设计思想的交汇、碰撞，可以设计作品为载体，得以实现。而经济的“全球化”发展趋势，使得设计交流的迫切性与必要性充分体现；在这样的前提下，设计作品联展——一种基于作品的设计交流形式，可以使交流更为直接、深入、内容丰富——为设计交流提供了最为便捷的渠道。

高等院校设计艺术专业，肩负教育、培养设计创新专门人才的重任；提高设计研究水平，拓展设计创新方法，从而提高设计教育水平，是设计教育界同仁的共同目标；以设计作品联展作为校际设计交流的形式，是设计思想的相互启迪，是设计方法的学习探讨，是设计资源的交流共享，也是设计成果的展示比拼，更是设计教育水平的共同提高。

本次设计作品联展，所邀约的参展院校特征类似——以工程技术为学科发展基础的综合性大学，这是主办院校刻意而为。“以共同或类似的学科发展背景，鼓励跨学科交流；倡导在教学过程中强化设计方案的工程实现可能；介入企业的实际产品开发项目”，寄希望于发现参展各方共同的兴趣所在，从而使这个设计交流平台真正发挥其高效、直接、深入交流的作用。

推出设计联展作品集，是希望通过作品集这一载体，在更大的范围内，为设计交流提供空间；以更有效的方式，传播先进设计理念、方法与设计教育思想；从而为促进提高中国的设计教育水平、形成并完善本土设计文化，作出贡献。

本次作品展和作品集的顺利推出，得益于各学校领导、老师的高度重视和大力配合；各学校参与作品收集的老师分别是：美国普度大学Steve Visser教授；美国伊利诺伊香槟分校Deana McDonagh博士；日本九州大学森田昌嗣教授；英国考文垂大学Sean McCartan博士；湖南大学何人可教授、肖狄虎教授、李辉老师；浙江大学孙守迁教授、彭韧老师；同济大学朱钟炎教授；中南大学戴端教授、黄志宇老师；东南大学崔天剑副院长；华东理工大学程建新教授、叶俊男老师；南京理工大学张锡教授、姜霖老师。当然，参与本次展会作品相关工作的远不止这些老师，展会中每项设计、每一块展板都倾注了上述参展单位每一位教师的心血。在此，谨向参展单位表示感谢，也祝贺各单位在教学、设计、研究等各方面取得了丰硕成果。

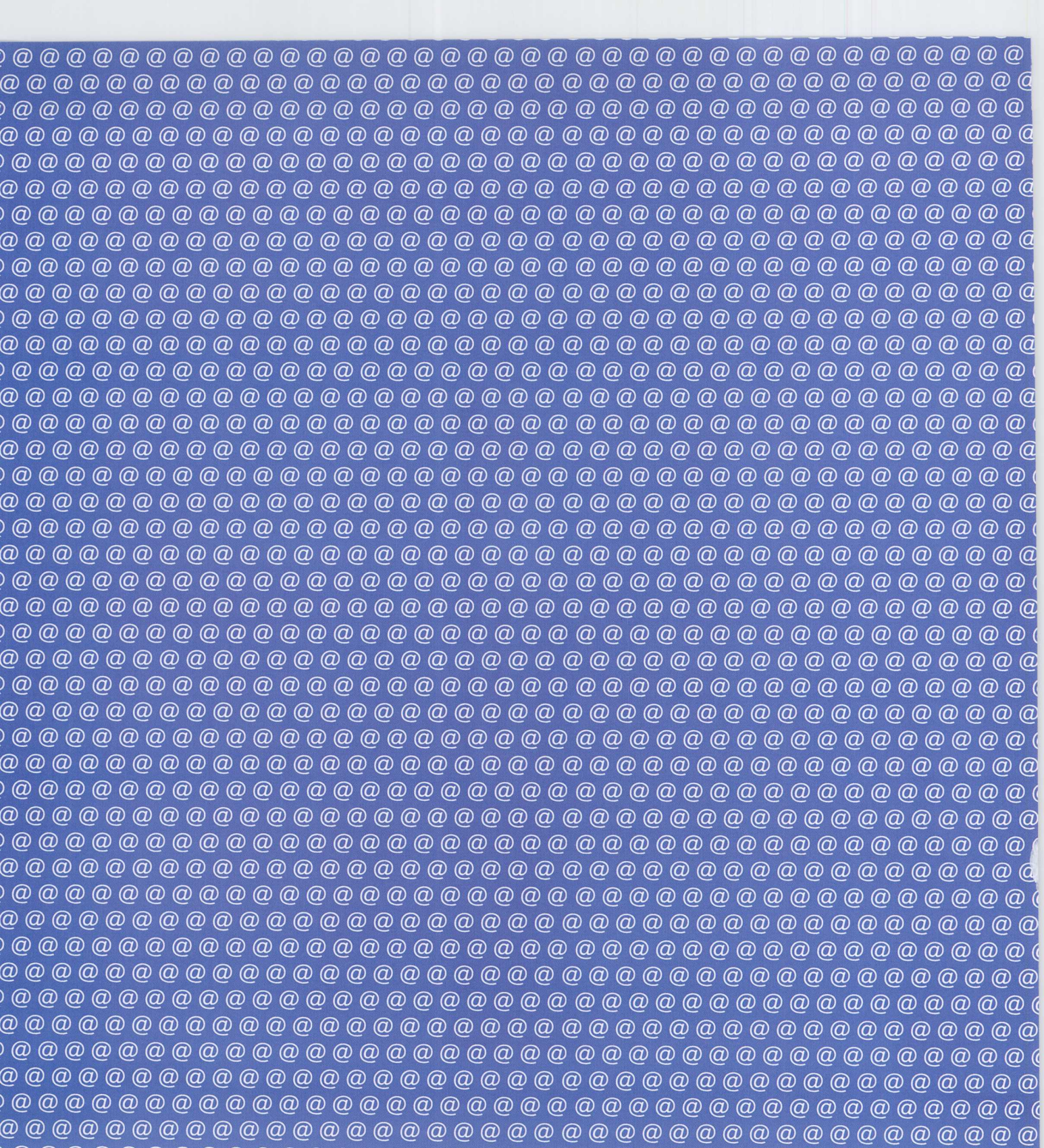
南京理工大学设计艺术系与中国建筑工业出版社

策划、组织了本次作品展，并安排专人联系各院校，参与该项工作的老师是张锡、李亚军、姜斌、段齐骏。在不到一个月的时间里，完成了作品收集和版式整理工作。由于时间短、任务重，在对外沟通交流方面也还存在一定的困难，因此在工作中难免存在一些瑕疵与问题，不到之处敬请谅解。

本次作品展和作品集的版面，是根据各单位提供的作品与研究资料，由南京理工大学设计艺术系结合作品集版面尺寸，重新设计调整后确定的。版式设计由王辉老师负责，硕士研究生刘佳佳、张丹、缪莹莹、毛桦浈、蔡芸、邹羽佳、李智尧、潘文涓等同学参与了排版设计工作，在此向他们的辛勤劳动表示感谢。

值此中国第25个教师节来临之际，谨将本作品集献给辛勤耕耘在设计教育领域的园丁们。

'09国际校际设计作品展组委会
南京理工大学设计艺术系
2009年9月10日



PURDUE

UNIVERSITY

Purdue University is located in West Lafayette, Indiana in the USA, with about 40,000 students. The Industrial Design (ID) area at Purdue has about 100 students in the program. They offer both an undergraduate and a graduate program in ID. The undergraduate degree is a professional program with intensive course work to prepare students for professional design positions. Purdue is unique in that it combines the professional degree with strong liberal arts education. This combination of liberal arts and professional design studies prepares students for strong leadership roles as industrial designers. Upon graduation students have worked for major corporations including: Nike, Hasbro, International Trucks, Whirlpool, Delta Faucet, General Electric, Sears, and Microsoft, to name a few. Graduates have also worked for Industrial Design consultancies including: Teams, IDEO, Insight, Worrell Design, Ziba Design, and BMW Designworks, to name a few.

The undergraduate program is a four-year degree with an emphasis in form giving for manufactured goods. Students graduate with the ability to be innovative problem solvers and create aesthetically appropriate forms that can be manufactured by industry. The first year is focused on learning basic design skills through a series of design problems that the student must solve. These abstract problems focus the students' attention on traditional visual form and shape development; additionally they learn both by hand and computer skills. The second year includes courses and projects that emphasize learning to give form to products within a variety of manufacturing techniques. Students experience hands on in the shop, as well as, virtually with the computer and rapid prototyping. In the third year, students are introduced to a variety of corporate sponsored projects as well as design competitions. In these projects, students must solve functional and technical requirements of the company along with aesthetic and psychological need/

wants of the intended users. The senior year is a combination of corporate sponsored projects, learning design leadership skills, and a personally selected thesis project. Students also apply research methodologies, introduced the year before, into their design projects.

Purdue Industrial Design students and faculty have been recognized both nationally and internationally in design competitions. The following list is a partial list of awards earned by ID students at Purdue University

2009 Nora Flood received first place in the International Housewares Student Design Competition.

2008 John Dutton received a Silver award in the IDSA IDEA competition

2007 Sydney Minnis was a winner in the Interzinc Design Challenge

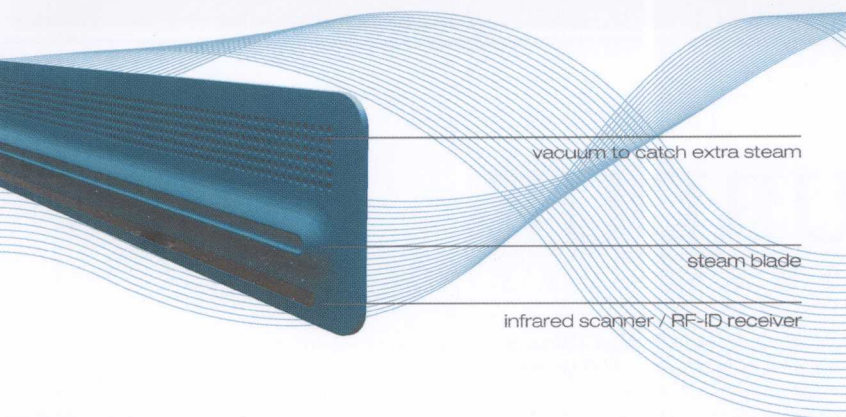
2006 Milan Jovanovic won first place in the International Marine Design Competition

2005 Nick Poteracki won first place in the International Dyson Eye for Why Challenge (Purdue students also won first, second and third place in the National Eye for Why Challenge).

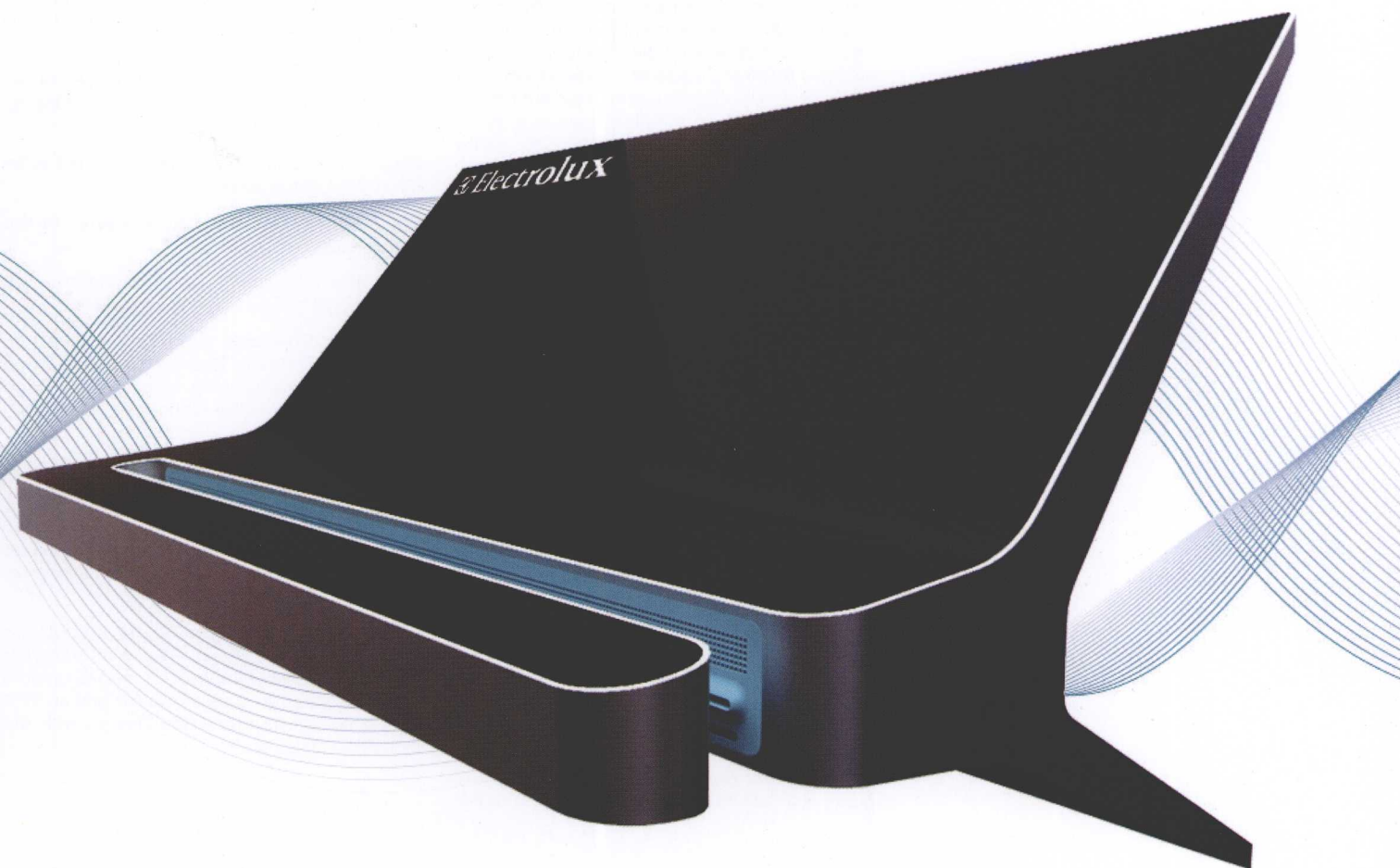
2004 Scott Shim, Ryan Lightbody, and Matt Grossman won first place in the International Bicycle Design Competition.

2003 Steve Visser and Scott Shim received an Award of Excellence in the Taiwan International Design Competition.

In the 2005 Purdue University added an MFA in Industrial Design. This is a three-year program preparing the leaders and educators in industrial design. In 2010 we will add an MFA specialization in interaction Design with the Industrial Design area.

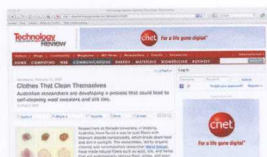


 **Electrolux**
renew



the future of clothes

Self-Cleaning Clothes



Two Chinese scientists have come up with the perfect solution to every laundrophobe's biggest problem—by developing clothes that never get dirty.

Self-cleaning clothes would be ideal for people who don't have time to wash their clothes or don't have the facilities to do so.

Hydrophobic Fabrics



Lead researcher Stefan Seeger at the University of Zurich says the fabric, made from polyester fibres coated with millions of tiny silicone filaments, is the most water repellent clothing appropriate material ever created.

It can be submerged in water for two months and still remain dry to the touch, says Seeger.

RFID Smart Tags

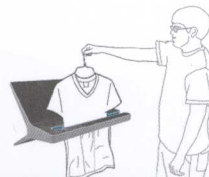


Appliance manufacturer Merloni Elettrodomestici is working on a washing machine that can read RF smart tags embedded in clothing and automatically know how best to wash them.

RF smart tags can also contain other information such as clothing makeup, origin, etc.



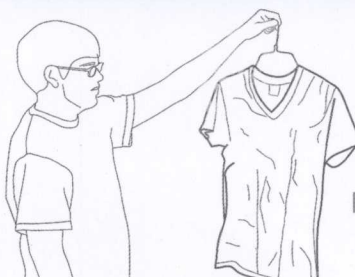
PLACE



LIFT



CLEAN



Jon has only worn this shirt once.

The shirt is wrinkled from folding.

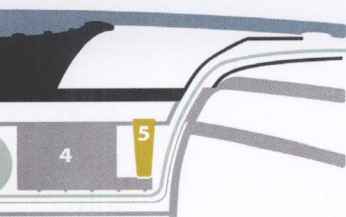
It's not dirty, but it needs refreshing.



TEASER
taste it before you cook it

TEASER is a next generation cookbook that offers taste sampling. TEASER assists users to identify the taste before they cook and avoid food waste by eliminating the dishes that conflict with their appetite. It supports the eco-friendly lifestyle and also contributes in the fight against hunger.

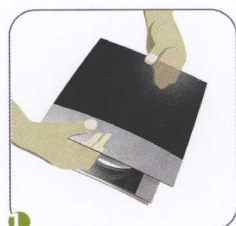
Teaser by Xi Chen and Scott Shim



tion view

TEASER is a digital cookbook that offers taste sampling and enhances food preparation experience. The unit is made up of a portable touch screen display and a print system that dispense edible flavor strip. TEASER incorporates ink-jet print technology utilizing 18 flavor cartridges and a role of dissolving strip. Flavor cartridges can be easily switched out to match the necessary ingredient required for the desired dish.

Use the portable touch screen display (cover of the unit) to browse through the recipe you wish to cook. Print a sample strip and place it on the tongue to enjoy the fullflavor taste experience of the desired dish. User may also adjust the ingredients of the digital recipe to match their personal preference. When the desired flavor is identified, follow the displayed instructions and cook with confidence.



1 Lift or touch the portable LCD display to connect the service.



2 Browse through the recipe you wish to cook using the touch screen display. Print a sample.



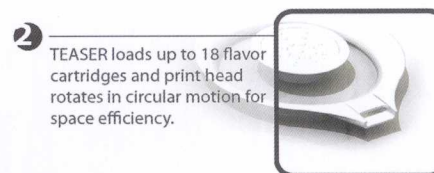
1 Portable touch screen LCD display connects wireless and is charged when placed over the unit.



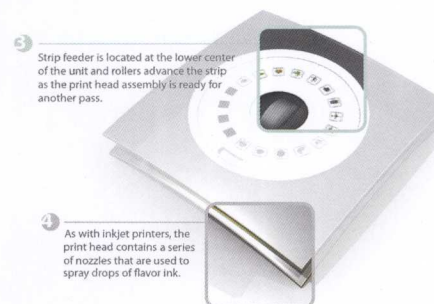
3 Grab and tear the flavor strip print.



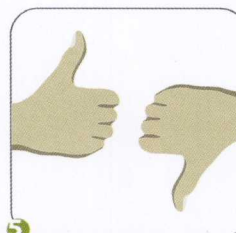
4 Place it on the tongue to enjoy the full-flavor taste experience of the desired dish.



2 TEASER loads up to 18 flavor cartridges and print head rotates in circular motion for space efficiency.



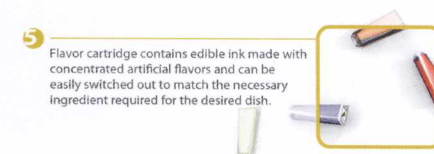
3 Strip feeder is located at the lower center of the unit and rollers advance the strip as the print head assembly is ready for another pass.



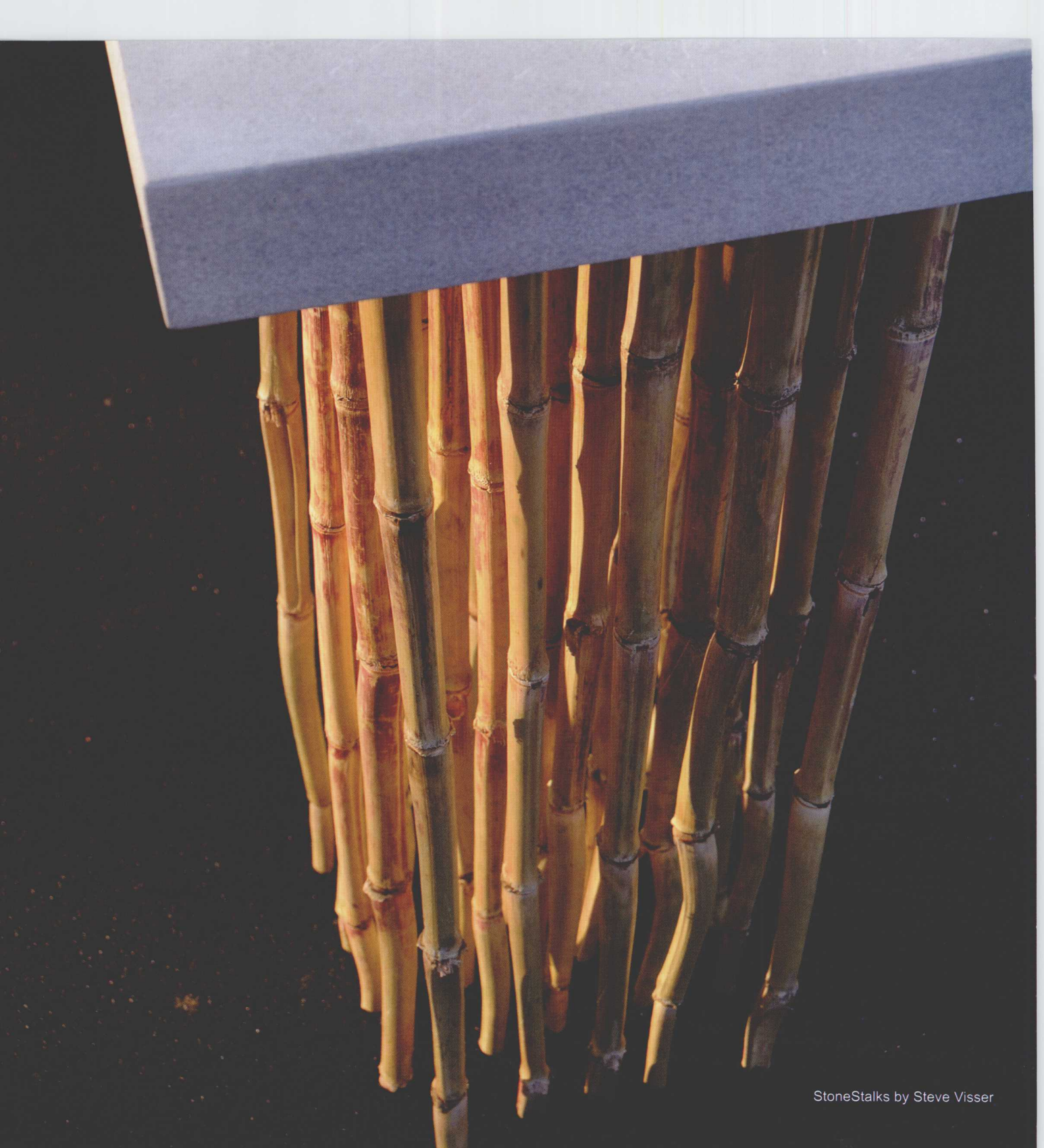
5 Determine if the flavor fits your taste. User may also adjust the ingredients to match their personal preference.



6 When the desired flavor is identified, follow the displayed instructions and cook with confidence.



5 Flavor cartridge contains edible ink made with concentrated artificial flavors and can be easily switched out to match the necessary ingredient required for the desired dish.



StoneStalks by Steve Visser

Field corn is grown extensively in Indiana. It has a shape similar to bamboo but is lighter in weight. The contrast of the extremely heavy limestone and the much more temporal corn stalks sparks an interesting public dialog. This corn was waste from a research project at Purdue University.

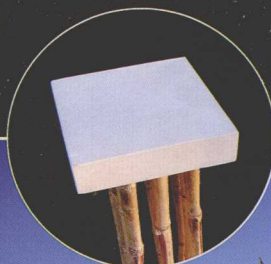
Limestone is known for its smooth fine texture. It is used extensively for building projects. This stone was harvested from a quarry just 100 miles from Purdue University.

Limestone

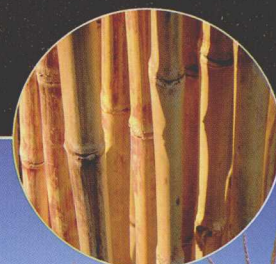
A natural stone in Indiana that has been mined for many years. It is known for its smooth fine texture. It is used extensively for building projects and is also used for industrial processing when ground into a fine dust. The colors range from buff to light gray. This stone was harvested from a quarry just 100 miles from Purdue University.

Corn Stalks

Field corn is grown extensively in Indiana. It has a shape similar to bamboo but is lighter in weight. When harvested mid-year it retains much of its strength. The contrast of the extremely heavy limestone and the much more temporal corn stalks sparks an interesting public dialog. This corn was waste from a research project at Purdue University.



StoneStalk



Outdoor Accessible
Unique Accessible



Outdoor Accessible by Patrick Cannon





standard chair assistance.



standard chair, dirty arms



standard chair parking break



ACC chair assistance



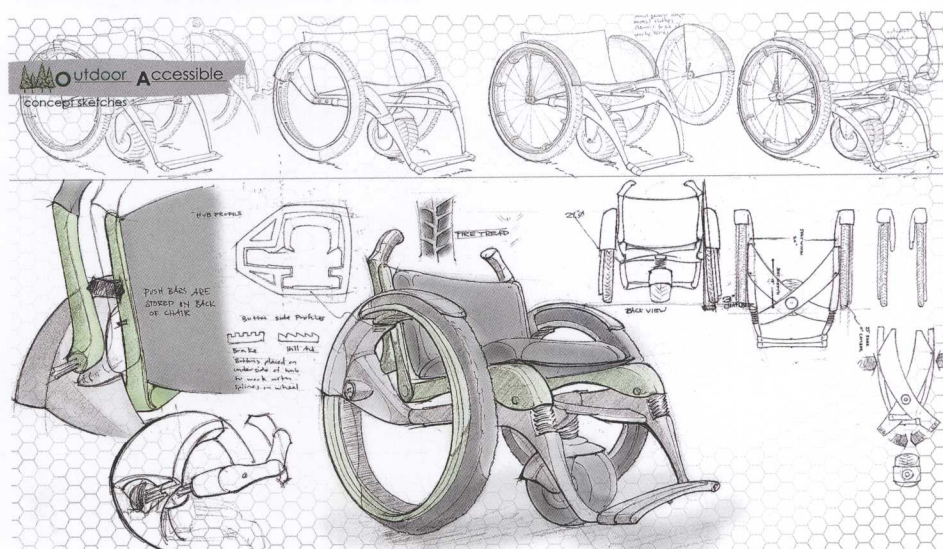
ACC chair

clean arm



ACC chair parking break

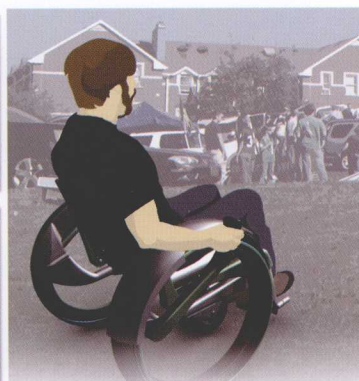
Honors 2009 新一代設計展
Young Designers Exhibition
Representative of Purdue University,
International Young Designers Exhibition,
Taipei World Trade Center (Taiwan)



release.



plug in.



Outdoor Accessible is a hybrid of the functionality in an all terrain chair with the simplicity of an everyday chair more suitable for indoor use. This chair will allow the user to appreciate and enjoy the outdoors easier. Therapeutic Recreation teaches that outdoor activity can help people with illnesses and disabilities use their leisure time in ways that enhance their health, functional abilities, independence and quality of life.

