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Design Research Quarterly Volume 4 Issue 2

Peter Storkerson

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Events & Listings, April 2009

CURRENT RESEARCH IN DESIGN

TABLES OF CONTENTS FROM LEADING DESIGN JOURNALS

ARCHITECTURAL DESIGN, 79:3

MAY.–JUN. 2009

SPECIAL ISSUE: ENERGIES

ISSN: 0003-8504 [WEB LINK](#)

Twelve easy pieces for the piano (6–11)

Sean Lally

- ▶ Nikola Tesla, spectrum of materiality, material energies, thermal variation, air velocity, light spectra and electricity

Contingent behaviours (12–17)

Michelle Addington

- ✦ [highlighting] the vicissitudes in attitudes that have existed over time to interior and exterior conditions by flagging up the 19th-century pursuit of ventilation and the permeable outside wall, which was pursued in the quest for public sanitation and a misguided belief in the toxic interior

99.7 per cent pure (18–23)

Mason White

- ✦ The HEPA air filter is only capable of processing 99.7 per cent of airborne particles, leaving 0.3 per cent unaccounted for.

'Never mind all that environmental rubbish, get on with your architecture' (24–29)

Penelope Dean

- ✦ a revised environmental agenda that is driven by ideas and concepts rather than subservient technologies

Meteorological architecture (30–41)

Philippe Rahm

- ✦ a new meteorological architecture, in which the invisible takes precedence over the visible, and the atmospheric, conduction of heat, perspiration and shifting weather and climate conditions are foregrounded

Domestic micro-environments (42–47)

Mathieu Lehanneur

- ✦ [readdressing] our understanding of domestic spaces through the environmental systems that control and condition them

Breeding the future (48–53)

Zbigniew Oksiuta

- ✦ a future of architecture that is biological, as demonstrated by...bioforms that investigate the cultivation of new types of organisms and living biological products outside the confines of natural evolution

When cold air sleeps (54–63)

Sean Lally

- ✦ What...if we stopped regarding the outside as something to be tempered or mediated?

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Artemis Yagou

DRQ-DRS

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DESIGN RESEARCH QUARTERLY PUBLICATION INFORMATION

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Kobe University, Japan

Prof. Necdet Teymur
Emeritus, Middle East Technical University, Turkey

Overlooked the day before: the work of Pierre Huyghe (64–69)

Sean Lally

- two projects...that use the materials and strategies of stage design...and introduce them into everyday contexts

Energy histories (70–75)

David Gissen

- how...history might be reinvented;... through visualisations and conceptual reconstructions of a previously gas-guzzling age or through an atmospheric and climatic archive that replaces the primacy of the photographic archive

Energy forms (76–83)

Cristina Díaz Moreno + Efrén García Grinda

- a new system for architecture that is founded on a spatial understanding of thermodynamic exchange and environmental systems and effects

The instinctive sense of space and boundary (84–87)

Petra Blaisse

- the significance of the invisible...and how the future of design will be opening the way to the sheer biology of things

Potential futures (88–97)

Sean Lally

- questioning the notion of the boundary and investigating the realm of materiality associated with energy

Kings Place: Hall One (100–105)

Howard Watson

- how...to create a true mixture of amenities while responding to the area's cultural needs and eclipsing its reputation for being less than salubrious

Weisz + Yoes (WXY architecture + urban design) (106–113)

Jayne Merkel

- Few small avant-garde practices have an impact on visitors to New York like that of WXY, as the firm is sometimes called.

The Royal Institution (114–119)

David Littlefield

- how Sir Terry Farrell's rethinking of the Royal Institution in Mayfair has led to a rationalisation and redesign that has transformed the premises from a tatty Georgian labyrinth into an airy series of modern spaces

Articulating environmental grounds

(120–123)

Anne Save de Beaurecueil, Franklin Lee

- working towards their goal of fusing architecture, landscape and contemporary art through an engagement with articulated ground organisations

Architecture of disbelief: is architectural speculation a good thing? (124–125)

Neil Spiller

- Can visionary architects have their cake and eat it, luxuriating in pecuniary success while also continuing to assert their avant-gardism?

Bioluminescence and nanoluminescence

(126–127)

Ken Yeang

- finding an alternative energy source for lighting buildings' interiors and our external spaces one of the greatest challenges of the 21st century

McLean's Nuggets (128–129)

Will McLean

AD+ Userscape

An unconventional low-cost museum

(130–133)

Valentina Croci

- how a diminutive museum dedicated to the feminine arts in Salerno, southern Italy, provides an intimate experience for visitors

Tower Houses of Sana'a (134–135)

Eric Firley

- The Urban Housing Handbook...investigates 30 major housing types from around the world, describes one of the most intriguing examples, situated in the Yemen on the Arabian Peninsula.

ARCHITECTURAL DESIGN, 79:2

MAR.–APR. 2009

SPECIAL ISSUE:

CLOSING THE GAP

ISSN: 0003-8504

[WEB LINK](#)

Optimisation stories: the impact of building information modelling on contemporary design practice (6–13)

Richard Garber

- Greg Lynn FORM, Garofalo Architects and McInturf Architects, Presbyterian Church of New York, Queens, New York, 1999

Best pedestrian route – GRO ARCHITECTS (14–17)

Richard Garber, Nicole Robertson

- a slanted and skewed temporary walkway, Jersey barriers, Alliance for Downtown New York (ADNY), Lower Manhattan Cultural Council (LMCC)

BURST*008, Museum of Modern Art – Douglas Gauthier and Jeremy Edmiston

(18–21)

Douglas Gauthier

- a prefabricated housing system, generative technologies to expand the range of architectural forms

Continued p. 4 →

The future of information modelling and the end of theory: less is limited, more is different (22–27)

Cynthia Ottchen

- ✦ Insights into the future of building information modelling (BIM)...We have to surpass mere data collection and technical optimisation and open up new ways of thinking with the creative use of soft data.

New academic building for the Cooper Union for the Advancement of Science and Art – Morphosis (28–31)

Martin Doscher

- stacked vertical piazza contained within a semi-transparent envelope, sky bridges, skip-stop elevator system, retail space and exhibition gallery, 200-seat auditorium, steel-and-glass skin, design married with the production method

The \$300,000/year architect (32–37)

Urs Gauchet

- the architect's place in a complex future where there is an increasing demand for buildings but a demise in available materials and conventional energy sources

Al Hamra Firdous Tower - Skidmore, Owings & Merrill (38–41)

Gary Haney

- Kuwait City, solar heat loads, algorithmic design process, subtractive, doughnut-like form, complex, double-curved, sheer concrete flare walls, rainscreen walls.

Unified frontiers: reaching out with BIM (42–47)

Coren Sharples

- ✦ Building information modelling (BIM) has become integral to the fluid promotion of communication between contractors, consultants and clients on a project.

C2 building, Fashion Institute of Technology – SHoP Architects (48–51)

SHoP Architects

- ✦ flexibility, communication and leading edge-technology, multilayered glass and metal facade, vertical Student Life Hall, steel trusses, highly flexible three-storey space, LEED-certified project, solar curtain-wall system, Fresnel lenses, site and climate analysis, daylighting analysis, thermal analysis.

Automated assessment of early concept designs (52–57)

Chuck Eastman

- ✦ [automating] the design guidelines for all US courthouses in such a way that preliminary designs by architects could be assessed and checked against specific criteria

Cellophane House – Kieran Timberlake (58–61)

Stephen Kieran, James Timberlake

- a matrix for holding materials together, materials retain their integrity and can be extracted, exchanged, reused or recycled, T-groove, friction connections, translucent floors, linear-line voltage LED modules, NextGen SmartWrap™, transparent PET, thin-film photovoltaic cells, 3M solar heat, UV blocking film, Schüco E2 glazing

Yale Sculpture Building and Gallery – Kieran Timberlake (62–65)

Stephen Kieran, James Timberlake

- LEED Platinum rating, four-storey glass studio building, Louis Kahn's existing Yale University Art Gallery, reclaimed wood, sculptural steel stair, Landscaped terraces, green roof, triple-glazed low-E glass, exterior sunshades.

Building for the third century (B3C), Massachusetts General Hospital – NBBJ (66–69)

Craig Brimley, Jorge Gomez

- Massachusetts General Hospital, building information modelling (BIM), quicker construction review, thermal dynamic models

Collaborative intelligence = respect (70–75)

Keith Kaseman

- ✦ how building information modelling (BIM) enabled the realisation of the Pentagon Memorial in Arlington, Virginia

Her secret is patience and she changes

– Janet Echelman (76–79)

Janet Echelman

- wind choreography, evolutionary biology, Harvard University, one-cell-thick life forms, Precambrian era, Buro Happold Consulting Engineers, Phoenix Civic Space, Arizona Desert wind, Eduardo Souto de Moura, Speranza Architects, voluminous net sculpture, dynamic relaxation, Custom knot types, virtually tested with modelling software, three-dimensional, multilayered net, AFA Associates, Peter Heppel Associates, 36 individual mesh sections, GORE Tenara® architectural fibre

Information modelling as a paradigm shift (80–83)

Dennis Shelden

- ✦ the more fundamental, subtle and profound decisions on the road to BIM [Building Information Modeling]

Continued p. 5 →

Strata Tower – Asymptote (84–87)

Hani Rashid, Lise Anne Couture

- ▶ 40-storey luxury residential building, Al Raha Beach, Parametric constraints, design team split into two groups, BIM technologies, Gehry Technologies, parametric plan layouts, Curtain-wall, Front Inc, environmentally responsive louvre system.

Alberti's paradigm (88–93)

Richard Garber

- ✎ the work of Filippo Brunelleschi, who did the seemingly impossible in early 15th-century Florence by spanning the massive opening of the dome of Santa Maria del Fiore, the city's cathedral, through an adept use of physical models

Recycled toy furniture – Greg Lynn FORM

(94–95)

Greg Lynn

- ▶ The Duck Table, The Eggplant Table and Whale Table, Recycled Toy Furniture installation, 2008 Venice Biennale, Golden Lion, Best Installation Project, Reverse Modeling, Inc, white light scanner, six-axis rotational moulding robot arm, hot welding system from Machineous, high-tech scavenging, recycled plastics, Panelite, plastic brick, building-scale masonry construction system.

An enthusiastic sceptic (100–105)

Nat Oppenheimer

- ✎ Could the quest for integration be leading towards oversimplification rather than customisation and differentiation?

Toni Stabile Student Center, Columbia University Graduate School of Journalism

– **Marble Fairbanks (106–109)**

Scott Marble, Karen Fairbanks

- ▶ partial renovation, McKim Mead & White Journalism School building, design and fabrication of performance-driven surfaces, perforated 16-gauge steel panels, acoustic insulation, buffer zones, digital scripting process, pixilation scripting process, sunscreen that hangs below a glass roof, corrugation pattern.

Carlos Zapata and Antonio Citterio's Cooper Square Hotel, New York (114–117)

Jayne Merkel

- ✎ Unlike most glamorous new high-rise apartment buildings in downtown Manhattan, this thin, tilted white glass tower provides homes away from home for chic out-of-towners.

Pierre Thibault (118–123)

Brian Carter

- ✎ how Thibault sets out to develop projects in some of the most remote, expansive and sparsely settled areas of the [Quebec] region, responding afresh to the landscape and its indigenous culture

Herbert Art Gallery and Museum, Coventry

(124–129)

David Littlefield

- ✎ The new extension to the Herbert Art Gallery provides a new refinement and logic to the previously eclectic museum and its environs.

Computational spring systems: open design processes for complex structural systems (130–133)

Sean Ahlquist, Moritz Fleischmann

- ✎ work with computational spring algorithms that has enabled iterative investigations of tension active systems and structures

Complex systems architecture (134–135)

Neil Spiller

- ✎ The potential of a single notation as a seed for a truly ecological architecture provides an essential catalyst, triggering a multifaceted musing that takes in diagrams.

McLean's Nuggets (136–137)

Will McLean

- ✎ [asking] whether the future could lie in nanoenergy and the proliferation of numerous personal nanogenerators – attached to buildings, individuals or under bridges

Replacing a beloved building with a hybrid:

Paresky Student Center, Williams College

(142–143)

Jamie Horwitz

- ✎ how Polshek Partnership's design for a new student centre at Williams College... has successfully integrated environmentally sensitive practices into the choreography of life

DESIGN ISSUES 25:2

SPRING 2009

ISSN: 0747-9360

[WEB LINK](#)

Services as customer-intensive systems

(3–13)

Claudio Pinhanez

Designer nostalgia in Hong Kong (14–28)

D. J. Huppertz

Science's "New Garb": aesthetic and cultural implications of redesign in a Cold War context (29–45)

Michael J. Golec

Notes on design and science in the HCI

Community (46–61)

Christoph Bartneck

Continued p. 6 →

Immediate and remote design of complex environments (62–74)

Turkka Keinonen

The School of Applied Arts, University of Chile, 1928–1968 (75–93)

Eduardo Castillo Espinoza

Design in history (94–105)

Victor Margolin

THE DESIGN JOURNAL 12:1

MAR. 2009

ISSN: 1756–3062

[WEB LINK](#)

Fights and fires are the flowers of Edo (9–24)

Jennie Tate

- ▶ design and urban planning, built environment, disaster, Tokyo

After taste – the power and prejudice of product appearance (25–39)

Stuart Walker

- ▶ taste, convention, creativity, sustainability, design

Six challenges facing user-oriented industrial design (41–67)

Steve Gill

- ⌘ industrial design; product design; design management; design issues; information appliance; computer embedded product; innovation

Identifying strategic directions for design development of general hospital equipment for Thailand (69–93)

Busayawan Ariyatam, Ray Holland, Pasu

Sirisalee, Danu Prommin

- ▶ public healthcare; general hospital equipment design; requirement capture process

Designing an innovative pill dispenser: an undergraduate level case study of inclusive design (95–115)

HuaDong, Natalie Vanns

- ▶ inclusive design, pill dispenser, design education

Book Review

Made in newcastle: visual culture. Hilary

Fawcett (ed.) (117–119)

Denton, Howard

DESIGN PHILOSOPHY PAPERS 2009/1

INEFFICIENT SUSTAINABILITY: PAPERS FROM NEW SCHOOL SUSTAINABILITY

DESIGN PHILOSOPHY SYMPOSIUM,

NOVEMBER 2008

ISSN 1448–7136

[WEB LINK](#)

Gift, design and gleaning

Allan Stoekl

Unnatural capital: Bataille beyond design

Jamer Hunt

Sustainability: inefficiency or insufficiency?

Tony Fry

Sustainability is not a humanism – Allan Stoekl's Bataille's Peak reviewed

Cameron Tonkinwise

DESIGN STUDIES, 30:3

MAY 2009

ISSN: 0142–694X

[WEB LINK](#)

Design: one, but in different forms

(187–223)

Willemien Visser

- ⌘ Defending an augmented cognitively oriented generic-design hypothesis: there are both significant similarities between the design activities implemented in different situations and crucial differences between these and other cognitive activities.

Shaping things: intended consumer response and the other determinants of product form (224–254)

Nathan Crilly, James Moultrie, P. John

Clarkson

- ⌘ [a framework representing] designers as holding distinct intentions for how product visual form should be interpreted by consumers

Global perspectives on structured research training in doctorates of design – what do we value? (255–271)

Gavin Melles

- ⌘ This study examined the significance of research training in doctorates of design... and attitudes to such training...among faculty and students.

- ⌘ Teaching to understand the urban sensorium in the digital age: lessons from the studio (272–286)

Rafael E. Pizarro

- ⌘ a cinematic technique-based method for teaching urban design studios to improve students' appreciation of the connection between the human cognitive-sensorial system...and the environmental qualities of public spaces

- ⌘ The development and testing of a product personality scale (287–302)

Ruth Mugge, Pascale C.M. Govers, Jan P.L. Schoormans

- ⌘ a 20-item scale that can be used to validly and reliably assess product personality based on product appearance during the design process

Continued p. 7 →

Estimating design effort for the compressor design department: a case study at Pratt & Whitney Canada (303–319)

Adil Salam, Nadia Bhuiyan, Gerard Jan Gouw, Syed Asif Raza

- ✦ [a case study using] a parametric modeling approach for the purpose of design effort estimation of an integrated blade–rotor low–pressure compressor (IBR LPC) fan.

DESIGN STUDIES, 30:2

MAR. 2009

ISSN: 0142–694X

[WEB LINK](#)

The mechanisms of value transfer in design meetings (119–137)

Christopher A. Le Dantec, Ellen Yi–Luen Do

- ✦ By analysing the verbal content and non–verbal communication between the architect and client....we develop a theory of value transfer and describe the social mechanism that facilitates this transfer during design negotiation.

Affect-in-cognition through the language of appraisals (138–153)

Andy Dong, Maaik Kleinsmann, Rianne Valkenburg

- ✦ the influence of the valence of affective judgments on design thinking

Ethical imagination and design (154–168)

Peter Lloyd

- ✦ how the fields of ethics and design inter–relate, especially in the area of creative imagination

Analogical reasoning and mental simulation in design: two strategies linked to uncertainty resolution (169–186)

Linden J. Ball, Bo T. Christensen

- ✦ an understanding of the nature and function of analogising and mental simulation in design through an analysis of the transcripts of two engineering design meetings

INFORMATION DESIGN JOURNAL, 17:1, 2009

ISSN: 0142–5471

[WEB LINK](#)

Integrated information systems: a professional field for information designers

Aaron Marcus

The idX mission: Information Design Exchange

Frank Cronk, Jill Dacey

Using eye tracking technology to examine the effectiveness of design elements on news websites

Sauman Chu, Paul Nora, Laura Ruel

An interview with Clay Spinuzzi

Saul Carliner

Cross–cultural experiences: modelling observations – developing an international conference on information design

Andreas Schneider

Signs and politics

Pierre Germain

Computer- vs. paper-based tasks: are they equivalent?

Jim Curran

Towards an account of intuitiveness

Jim Curran

Skittish skits and scanty silhouettes: the tribulations of gender in modern signage

Aaron Marcus

Otto Neurath's Isotype and the rhetoric of neutrality

Aaron Marcus

Keynote address by Meredith Davis

Jill Dacey

Design research and academic disciplines

Jorge Frascara

Inklings: from mind to page in research

Jorge Frascara

Book Reviews

Information Design Workbook: Graphic approaches, solutions, and inspiration plus 30 case studies. Kim Baer.

Gordon Akwera

The language of the global polis. Otto Neurath

Robin Kinross

Lovely language. Ed Annink and Max Bruinsma.

Robin Kinross

Letters tell: Listen before you start to design. Jun Shinohara.

Keiichi Koyama

The language of new media design: theory and practice. Radan Martinec & Theo van Leeuwen.

Kelley K. Gottschang

Multimodality and genre: A foundation for the systematic analysis of multimodal documents. John A. Bateman.

Patricia Wright

Signage Design Manual. Edo Smitsluijzen.

Regina Henze

Continued p. 8 →

THE INTERNATIONAL JOURNAL OF ART & DESIGN EDUCATION

ISSN: 1476-8062

[WEB LINK](#)

Community participatory ecological art and education (4-13)

Young Imm Kang Song

- phenomenological case study on ecological artist Lynne Hull...investigating the connections between ecological art, nature, and education

The Importance of Conceptual and Concrete Modelling in Architectural Design Education (14-24)

Aysu Akalin, Ihsan Sezal

- This article argues for a 'studio-based learning' approach in terms of the impact of design tools, especially sketching and concrete modelling, on the creativity or problem-solving capabilities of a student.

Boys' lack of interest in fine arts in a coeducational setting: a review of sex-related cognitive traits studies (25-36)

Alain Savoie

- Explores concepts of sex-related cognitive traits to help in designing sex-adapted approaches to individual learning in art education.

Assessment focus in studio: what is most prominent in architecture, art and design? (37-51)

Barbara de la Harpe, J. Fiona Peterson, Noel Frankham, Robert Zehner, Douglas Neale, Elizabeth Musgrave, Ruth McDermott

- a view of assessment is emerging that recognises the process and the person, beyond a view that positions the product or art/design arte-fact above all else

ARTEMIS: reinvigorating history and theory in art and design education (52-60)

Jeff Janet, Melissa Miles

- whether virtual environments like ARTEMIS can generate new life in art and design history, augment the teaching and learning mix in art and design higher education, and foster new modes of active engagement amongst students.

The City of Richgate: a/r/tographic cartography as public pedagogy (61-70)

Rita L. Irwin, Barbara Bickel, Valerie Triggs, Stephanie Springgay, Ruth Beer, Kit Grauer, Gu Xiong, Pauline Sameshima

- [examining] immigrant experiences and narratives through a community-engaged process that employed a/r/tography as a methodology

Design theory and design practice within Sloyd education (71-81)

Barbro Sjöberg

- an account of the kind of design knowledge the students are working on during the process, and how iterativeness and multi-layered procedures, which are characteristic for the design process of a single student, is built up

Predicting performance in art college: how useful are the entry portfolio and other variables in explaining variance in first year marks? (82-106)

Donal O'Donoghue

- if and to what extent a set of pre-enrolment variables and background characteristics predict first year performance in art college

Open disclosures: learning, creativity and the passage of mental (III) health (107-116)

Olivia Sagan

- an ongoing research project at the University of the Arts, London, which investigates the learning and creativity of a group of students with mental health difficulties

INTERNATIONAL JOURNAL OF DESIGN 3:1, APR. 2009

SPECIAL ISSUE ON CULTURAL ASPECTS OF INTERACTION DESIGN

ISSN: 1991-3761

[WEB LINK](#)

Influence of stakeholders on industrial design materials and manufacturing selection

Owain Francis Pedgley

- a four-way stakeholder description of materials and manufacturing selection in industrial design, spanning: users, clients, manufacturers/vendors and designers/design team members

Facilitating dynamics of focus group interviews in east Asia: evidence and tools by cross-cultural study

Jung-Joo Lee, Kun-Pyo Lee

- Since many user research methods popularly used in design have been developed in Europe and North America, one may question how these methods work in completely different cultures....results of a comparative experiment in the Netherlands and South Korea.

Continued p. 9 →

Place-specific computing: a place-centric perspective for digital designs

Jorn Messeter

- place-specific computing is suggested as a genre of interaction design that addresses the shaping of interactions among people, place-specific resources and global socio-technical networks, mediated by digital technology, and influenced by the structuring conditions of place

Collaborative 3D workspace and interaction techniques for synchronous distributed product design reviews

Tek-Jin Nam, Kyung Sakong

- a collaborative 3D workspace that makes use of newly developed interaction techniques for synchronous distributed product design reviews

Design Case Studies

Navigating the innovation matrix: an approach to design-led innovation

Paul Gardien, Steven Kyffin

- Finding the best way through the non-linear matrix of options is a key factor in moving imaginative ideas effectively to the market.

Creating economic value by design

John Heskett

- the influence of major economic theories in shaping views of what constitutes value as created by designAbstract

**INTERNATIONAL JOURNAL OF
TECHNOLOGY AND DESIGN EDUCATION**
19:2 JUN. 2009
ISSN: 0957-7572 [WEB LINK](#)

Conceptualisation of technology education within the paradigm of sustainable development (109–132)

Margarita Pavlova

- A conceptualisation of sustainable development based on a combination of weak anthropocentrism and value based approaches within particular social, environmental and economic contexts provides the basis for establishing education for sustainable development (ESD) through technology education.

Toward sustainable practices in technology education (133–147)

Leo Elshof

- The urgent transformation to technology education for sustainability citizenship must begin with a critical examination of existing practices and assumptions which underpin unsustainability.

Education for sustainable development: current discourses and practices and their relevance to technology education (149–165)

Walter Leal Filho, Evangelos Manolas, Paul Pace

- the state of affairs in relation to education for sustainable development and...its links and appropriateness to technology education.... examples of initiatives and existing practices around the world

The social agenda of education for sustainable development within design & technology: the case of the Sustainable Design Award (167–186)

James Pitt and Fred Lubben

- the effectiveness of the Sustainable Design Award, an intervention in post-16 technology education in three countries to encourage students and teachers to strengthen design for sustainability in their work

Problem-solving in technology education as an approach to education for sustainable development (187–197)

Howard Middleton

- The design, problem-solving approach that is common to technology education classrooms provides many affordances to students engaging meaningfully with ideas of sustainability and of developing strong understandings of its scope and significance.

Educating for environmental sustainability and educating for creativity: actively compatible or missed opportunities? (199–219)

Kay Stables

- the importance of both creativity and environmental sustainability for developing individual learners and society as a whole.

ASIT—a problem solving strategy for education and eco-friendly sustainable design (221–235)

Steve Turner

- [The Advanced Systematic Inventive Thinking] strategy can be an effective methodology to be taught and used in the Technology Education classroom to solve problems in the 'eco' or sustainable design context.

Continued p. 10 →

**INTERNATIONAL JOURNAL OF
TECHNOLOGY AND DESIGN EDUCATION**
19:1 MAR. 2009
ISSN: 0957-7572 [WEB LINK](#)

**Collaborative learning in technology
education: D&T unit on puppetry in
different Indian socio-cultural contexts**

(1-14)

Swati Mehrotra, Ritesh Khunyakari, Chitra Natarajan, Sugra Chunawala

- the trials of a Design and Technology (D&T) unit carried out in three different Indian contexts with a focus on collaborative learning

Episodes to scripts to rules: concrete-abstractions in kindergarten children's explanations of a robot's behavior

(15-36)
David Mioduser, Sharona T. Levy and Vadim Talis

- young children's abstraction of the rules underlying a robot's emergent behavior... the progression through which rules are constructed

Technology and Design, at Key Stage 3, within the Northern Ireland curriculum: teachers' perceptions

(37-54)
Kenneth Gibson

- the perceptions of teachers of Technology and Design...in post-primary schools throughout Northern Ireland to the introduction and implementation of the subject [technology and design]

Assessing creative thinking in design-based learning

(55-65)
Yaron Doppelt

- the use of design-based learning (DBL) to support the documentation of an authentic project pupils are creating as a graduation project at high school level

The attitudes of interior design students towards sustainability

(67-77)
Caimen Leigh Ruff, Margot A. Olson

- a four-part survey: demographics, ecology, sustainability, and comments

On-line critiques in collaborative design studio

(79-99)
Aysu Sagun, Halime Demirkan

- [analysis of] the Design Collaboration Model (DCM),...developed to provide a medium for the on-line collaboration of the design courses

Review:

Philosophy and Design: From Engineering to Architecture. Pieter Vermaas, Peter Kroes, Andrew Light, Steven A. Moore (eds).
Marc de Vries

JOURNAL OF DESIGN HISTORY
22:1 MARCH 2009

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Toying with Design Reform: Henry Cole and Instructive Play for Children

(3-26)
Ezra Shales

- design reform movement, design history, crafts technology, consumer products, domestic life, material culture of childhood

The Social Rise of the Orkney Chair

(27-45)
Annette Carruthers

- Arts and Crafts Movement, furniture, International Exhibitions, the Netherlands, Scotland, vernacular revival

Consumption of Modern Furniture as a Strategy of Distinction in Turkey

(47-67)
Meltem Ö. Gürel

- domestic material culture, furniture, identity, Istanbul Hilton Hotel, modern design, taste

Turning Architecture Inside Out: Revolving Doors and Other Threshold Devices

(69-77)

Laurent Stalder

- architecture, design theory, human body, modernity, technology, threshold

Reviews

Craft, pace and Interior Design 1855-2005.

Sandra Alfody & Janice Helland. (79-80)

Matthew Partington

Representations of British Motoring. David

Jeremiah. (80-82)

Linda King

Thinking through Craft. Glenn Adamson.

(82-84)

Andrea Peach

The Wedding Present: Domestic Life

beyond Consumption. Louise Purbrick.

(84-86)

Shirley T. Wajda

The Dress of the People, Everyday Fashion in Eighteenth Century England. John Styles.

(86-87)

Christiana Payne

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Mapping the strategic objectives between new product development and product design in Taiwan's information industry

(105-124)

Yen Hsu

- the strategic groups [that] developed from the new product development strategies of various firms in the Taiwanese information industry

Continued p. 11 →

An innovative design method for compliant mechanisms combining structural optimisations and designer creativity (125–154)

Masakazu Kobayashi, Shinji Nishiwaki, Kazuhiro Izui, Masataka Yoshimura

- ✦ This paper proposes an innovative, integrated design method for the design of practical and sophisticated compliant mechanisms.

The risk in early design method (155–173)

Katie Grantham Lough, Robert Stone, Irem Y. Tumer

- ✦ a mathematical mapping from product function to risk assessments that can be used in the conceptual design phase

A gene–engineering–based design method for the innovation of manufactured products (175–193)

Ke–Zhang Chen, Xin–An Feng

- ✦ This paper applies gene-engineering techniques to develop such an innovative design method, which is different from the conventional design methods and innovates products via artificial differentiation of virtual chromosomes of manufactured products.

A design recovery framework for mechanical components (195–215)

R. Jill Urbanic, Waguih ElMaraghy

- ✦ a design recovery framework, which provides a multi–level roadmap to capture the functional and physical information at different levels of resolution

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Engineering design: perspectives, challenges, and recent advances (7–19)

Shaofeng Liu, Iain M. Boyle

- ✦ a review of papers published in the Journal of Engineering Design from 2007 to 2008

A concurrent function deployment–based and concurrent engineering–based product development method for original design manufacturing companies (21–55)

Ying-Chin Ho, Chih-Hsin Lin

- ✦ With this method, ODM companies can engage in and effectively complete ODM projects, and, most importantly, meet customer’s requirements.

Development of a systematic classification and taxonomy of collaborative design activities (57–81)

Karen J. Ostergaard, Joshua D. Summers

- ✦ This taxonomy is an initial step towards the creation of new agent–based collaborative support tools structured upon a fundamental understanding of the collaborative process with a theoretical foundation.

Automated synthesis of electromechanical design configurations from empirical analysis of function to form mapping (83–104)

Tolga Kurtoglu, M. I. Campbell

- ✦ a methodology...that extracts design knowledge from an expanding online library of engineering artefacts in the form of grammar rules....a computational process that builds new design configurations by borrowing concepts from how common functions are solved in related designs

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Civic Concinnity (131–145)

Mark C. Childs

Architects’ Places, Users’ Places: Place Meanings at the New Central Bus Station, Tel Aviv (147–161)

Liron Amdur, Marina Epstein–Pliouchtch

An Exploration of the Effect of Housing Unit Density on Aspects of Residential Landscape Sustainability in England (163–187)

Carl Smith, Andy Clayden; Nigel Dunnett

Legibility and Aesthetics in Urban Design (189–202)

Nigel Taylor

Urban Design as a Frame for Site Readings of Heritage Landscapes: A Case Study of Champaner–Pavagadh, Gujarat, India (203–221)

Amita Sinha, Yuthika Sharma

Book Reviews

True Urbanism: Living In and Near the Center. Mark L. Hinshaw. (223–224)

Mark Childs

Design and Landscape for People—New Approaches to Renewal. Clare Cumberland & Lucy Musgrave. (225–227)

Bob Jarvis

Rethinking Urban Parks: Public Space and Cultural Diversity. Seitha Low, Dana Taplin, Suzanne Scheld. (227–229)

Talja Blokland

Publics and the City. Kurt Iveson. (230–231)

Mahyar Arefi

Designing Australia’s Cities: Culture, Commerce and the City Beautiful, 1900–1930. Robert Freestone (232–235)

Arnis Sikсна

UPCOMING EVENTS

DESIGN CONFERENCES WORLDWIDE

ARTEMIS YAGOU

2009					
11-14 May	Liverpool, UK EURAM 2009: Renaissance and Renewal in Management Studies http://www.euram2009.org/r/Renaissance-and-Renewal-in-Management-studies	3-5 Sep.	Hatfield, UK Writing Design: Design History Society Annual Conference http://sitem.herts.ac.uk/artdes_research/tvad/writingdesign.html	12-16 Oct.	Istanbul, Turkey Revitalising Built Environments: Requalifying Old Places for New Uses http://www.culturespace2009.org
18-20 Jun.	Paris DD4D – Data Designed for Decisions VisionPlus : joint IIID, OECD conference http://www.iiid.net	7-9 Sep.	London, UK Improving Student Learning for the 21st Century Learner http://www.brookes.ac.uk/services/ocslid/isl/isl2009/callforpapers.html	13-16 Oct.	Compiègne, France DPPI 2009: Designing Pleasurable Products and Interfaces http://www.utc.fr/dppi09/
19 Jun.	London, UK EKSIG2009: Experiential Knowledge and New Methodologies http://www.experientialknowledge.org.uk/	9-10 Sep.	Wolverhampton, UK Retailing and Distribution History: A Conference to Mark 10 Years of CHORD http://home.wlv.ac.uk/~in6086/2009conf.html	19-22 Oct.	Seoul, South Korea IASDR 2009: Rigor and Relevance in Design http://www.iasdr2009.org/
19 Jun.	London, UK In Pursuit of Luxury Conference http://www.inpursuitofluxury.com/	10-11 Sep.	Brighton, UK Creating a Better World: The 11th International Conference on Engineering and Product Design Education http://www.epde09.org/	26-27 Oct.	Taipei, Taiwan DeSForM 2009 http://www.desform.org
10-13 Jul.	Orlando (FL), USA WMSCI 2009: 13th World Multi-Conference on Systemics, Cybernetics and Informatics http://www.ICTconfer.org/wmsci	17-18 Sep.	Plymouth, UK Making futures: The Crafts in the Context of Global Sustainability and Environmental Issues http://makingfutures.pcad.ac.uk	12-13 Nov.	Lugano, Switzerland Multiple Ways to Design Research Swiss Design Network Symposium 2009: www.multipleways09.ch
30 Aug. - 1 Sep.	Oslo, Norway Nordic Design Research Conference, NORDES'09: Engaging Artefacts http://www.nordes.org	1-3 Oct.	Lisbon, Portugal IADE Anniversary Conference http://www.iade.pt	24-25 Nov.	Helsinki, Finland The Art of Research: Processes, Results and Contributions http://www.taik.fi/designresearch/AOR2009
2-4 Sep.	London, UK Designs on eLearning 2009 http://www.designsonelearning.net/index.htm	17-18 Sep.	Plymouth, UK Making futures: The Crafts in the Context of Global Sustainability and Environmental Issues http://makingfutures.pcad.ac.uk	2010	
				2-4 Mar.	Paris, France KEER2010: International Conference on Kansei Engineering and Emotion Research http://www.keer2010.eu

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The Design Research Society is the multi-disciplinary learned society for the design research community worldwide.

We have an international design research network in around 40 countries comprising members who maintain contact through our publications and activities.

Our members are from diverse backgrounds, not only from the traditional areas of design, ranging from expressive arts to engineering, but also from subjects like psychology and computer science.

We:

- ▶ Recognize design as a creative act common to many disciplines
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- ▶ Advance the theory and practice of design
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- ▶ systems design
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- ▶ psychology
- ▶ computer science
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- ▶ informatics
- ▶ design for development
- ▶ and many other subjects.

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Friday, 19 June 2009
London Metropolitan University,
London, UK
16 Goulston St. London E1 7TP

Keynote Speaker:

Prof Angie Titchen, Fontys
University of Applied Science, NL

Web site: <http://www.experientialknowledge.org/>

Key dates:

05 Jan.	Notification of accepted abstracts
01 April	Submission of full papers
01 May	Notification of acceptance of papers
19 June	Submission of revised papers

All papers selected for presentation at the conference will be published in the conference proceedings, an abstract booklet and a CD, the preferred format of the DRS. The conference has also agreed on a collaboration with the Journal of Research Practice, and selected papers will be published in the journal.

The conference will be convened by the DRS Special Interest Group on Experiential Knowledge (EKSIG), and hosted by London Metropolitan University.

CURRENT SPECIAL INTEREST GROUPS OF THE DRS:

DRS Special Interest Groups:

Experiential Knowledge (EKSIG)

EKSIG is concerned with understanding the nature and role of knowledge in research and practice in order to clarify fundamental principles and practices of using practice in research.

Design for Health and WellBeing

The SIG will focus on bringing together designers, design researchers, health professionals and others responsible for the delivery of health care services and products and 'less traditional' well being therapies.

Emotion, Experience and Interaction

This SiG aims to bring individuals together from a range of disciplines and commercial areas with an interest in the ways that humans experience artefacts to help the design discipline to integrate and reconcile the variety of theoretical and methodological approaches to the subject.

Design Pedagogy

The SIG aims to bring together design researchers, teachers and practitioners, and others responsible for the delivery of design education, to clarify and develop the role of design research in providing the theoretical underpinning for design education.

Information:

<http://www.designresearchsociety.org>
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