

POSTMASTERS

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GEORGE L. LEGENDRE

George L. Legendre is an architect and writer, whose work is an unorthodox fusion of design, mathematics, and computation. He is a founding partner of IJP Corporation, a London-based, design-led practice, where he has served as director since 2004.

A regularly published essayist, he has written *IJP: The Book of Surfaces* (2003), as well as *Bodyline: the End of our Meta-Mechanical Body* (2006), and the main critical essay in *Mathematical Form: John Pickering and the Architecture of the Inversion Principle* (2007) (all AA Publications). His latest research opus, *Pasta by Design*, was published by Thames & Hudson in 2011, and subsequently translated into German in 2012.

Legendre graduated from the Harvard Graduate School of Design in 1994 and served as lecturer and Assistant Professor of Architecture there from 1995 to 2000. He has been an Associate Professor in Practice at Harvard GSD since 2011.

EDUCATION

Harvard University Graduate School of Design, Cambridge MA.

Master in Architecture conferred February 1994.

School of Architecture of Paris-Belleville, Paris, France.

Diploma of Architecture DPLG (B.Arch) with distinction. Lyceum Lavoisier, Paris, France.

Baccalauréat C. Three-year maths and physics high school degree course.

ARCHITECTURAL PRACTICE

2013-2004 IJP ARCHITECTS practice accredited by the British Architectural Accreditation Board (ARB).
PASSERELLE DES CEDRES, Switzerland. Third prize. International competition for a 70-meter footbridge, Lausanne. March 2013.
ONE AND THREE PASTA, Exhibition design and content of installation commissioned by the Istanbul-based art gallery Galerist. In collaboration with Serkan Özkaya, October 2012.
MOMA PS1 YAP, NY USA. Invited competition for a temporary outdoor structure, Feb. 2011.
ASTYPALAIA MASTER PLAN, speculative residential development on the Island of Astypalaia, southern Greece. Initial topographic survey completed in September 2010. Next phase May 2011.
THE BERKELEY BAT HOUSE, high-tech animal shelter on the grounds of the London Wetlands Centre, Barnes SW13. Executive architect from scheme design to construction with Tandberg Murata. Client: London Wetlands Centre. Completed September 2009.

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SEROUSSI HOUSE, Invited Competition for an innovative, geometry-led 500-m2 house design. Client: Galerie Natalie Seroussi, Paris France.

HENDERSON WAVES, Singapore, first prize: open international design competition for a 300 meter-long pedestrian bridge, in collaboration with RSP Architects, Planners and Engineers (PTE) LTD. Client: the Singapore Urban Redevelopment Authority. Scheme Completed in 2008.

GLASSHOUSE STREET CANOPY, FIRST PRIZE. Invited competition for a steel canopy and urban arcade in Regent Street SW1, in collaboration with Adams Kara Taylor Consulting Civil and Structural Engineers (AKT). Client: the Crown Estate. Feasibility studies May-Sept. 2005.

3 FEASIBILITY STUDIES FOR PUBLIC ART DISPLAYS, with artist John Pickering (2006, 2007, 2008). In collaboration with Adams Kara Taylor Consulting Civil and Structural Engineers (AKT) Quantity Surveyor Davis Langdon UK.

SELECTED OPEN INTERNATIONAL COMPETITIONS AND REQUESTS FOR QUALIFICATIONS (RFQ) entered by the office since 2004: A Pleated Roof Over Sylvania Way, UK. Urban canopy over River Clyde, with AKT (2006). Pennington Road Bridge UK (2006), footbridge with AKT. Slides in the Public Realm, Feasibility Study for GPA London UK. With artist Carsten Holler (2006). Jeongok Museum of Paleolithic History, South Korea. Open international competition for new art museum. (2006).

Museum of Contemporary Art and Planning Exhibitions, Shenzhen

PRC. Open international competition for new art museum. (2007). Sheffield Parkway Bridge UK footbridge with AKT (2007). 12 bridges for Jumeirah Golf Estate UAE, RFQ.

Footbridges for new landscape development, (2008). River Douglas Bridge UK.

Footbridge with AKT (2008). KruppThyssen Elevator Award Tower, Dubai UAE.

Open International Competition for a 170-meter tall observation tower (2008). The Art Fund Pavilion, Woking UK (2009). National Museum of Art, Architecture and Design at Vestbanen, Oslo, Norway. Open international competition for new art museum.

(2009). Thematic Pavilion, Yeosu 2012 Expo South Korea. Open international competition for new museum dedicated to the future of oceanography. (2009).

Cleveland Lakefront Open international competition for aTransport Interchange, US

(2009). 4-Mile Run Bridge, Virginia USA. RFQ for a footbridge (2009). Victoria Dock,

London UK. RFQ for a footbridge (2009). Land Art Generator Initiative, Abu Dhabi

UAE Open International Competition for a new sustainable energy generator

(2010). Hereford Buttermarket Regeneration, UK. Open International Competition for

a new market facility (2010). Helsinki Public Library, open international competition for

a national library, Helsinki (2012). CEOL Lausanne, open international competition for

a school building, Lausanne (2012). Requalification du Chateau Chillon, international

competition (2013).

2001 –2004 TECHNICAL ARCHITECT, SKIDMORE OWINGS & MERRILL LLP, LONDON UK

Architectural Project Work: Stages D and E of Rondo Z Tower, Warsaw. Broadgate Retail Pavilion and Hamilton House< London. Lisbon Campolide mixed retail scheme.

NATO headquarters international competition (first prize).

CAD Coordination and Strategy: CAD drawing/database connectivity prototypes.

Development of database content and interface for Best Building Practice (ISO 9001).

1994 – 1995 ARCHITECT, GWATHMEY SIEGEL AND ASSOCIATES ARCHITECTS, NY, NY

Master planning and design development for Nanyang Polytechnic campus, Singapore.

3D Modeling and Computer-Aided Design management. Production management:

script and batch writing, macro programming, and other general process-automation

tasks.

INDIVIDUAL EXHIBITIONS

- September 2012 Galerist Gallery, Istanbul. *One and Three Pasta*. Conceptual installation with Serkan Özkaya. Curated by Fatos Ustek as *Le jardin de la spéculation cosmique*.
- October 2011 B&B Showroom, London W1. *Pasta City Unveiled*. Design installation.
- Sept-Oct. 2009 SW1 Gallery, London. *F(0)1b* exhibited at Deformed-Transformed, London SW1E 5JE.
- March 2006 Architectural Association, Front Member's Room, *Teacher/Student: Not the Last Word*, exhibition of IJP's winning entry for the largest footbridge in south-east Asia.
- March 2003 Architectural Association, Front Member's Room. Reverse Picture of the Self. Electronic Java installation to mark the launch of AA publication *IJP: The Book of Surfaces*.
- May 2001 Graduate School of Design, Harvard University, exhibition of computer-generated drawings.

GROUP EXHIBITIONS

- March 2013 University of Lausanne, Switzerland. *Passerelle des Cèdres*. IJP's prizewinning entry.
- November 2012 FAR Lausanne, Switzerland. *CEOL Lausanne*, IJP's competition entry.
- November 2009 Xi'an, PRC 08 Parametric Prototypes: New Computational Paradigms in Architecture.
- April 2009 CCA, San Francisco Flux: Architecture in a Parametric Landscape Exhibition.
- June – Sept. 2008 Beijing Architecture Biennale, PRC. Represented Europe, curated by Marc Fornes.
- December 2007 The New Art Gallery Walsall, exhibition of inverse sculpture (with John Pickering).
- November 2007 Architectural Association, Front Member's Room. Pavilion Seroussi: Architectures de Collectionneur.
- June – Sept. 2007 Maison Rouge Paris, France Pavilion Seroussi: Architectures de Collectionneur.
- June 2007 GLEEDS UK, London Young Architects Expose, 24 Emerging London practices exhibit their work,.
- Feb. – April 2007 Maison de l'architecture, Marseille France *The Computational Turn*. International design exhibition on emerging, digital-minded practices (and their forebears of the 1970s).
- November 2006 Building Centre, UK YAYA 2006. Shortlist exhibition, New London Architecture.

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- July 2006 Lines Of Enquiry. Drawing exhibition, Kettle's Yard Gallery, Cambridge University UK.
- June – Sept. 2006 Beijing Architecture Biennale. PRC. Represented the UK.
- June – Sept. 2003 National Gallery, Prague Biennale. *Reverse Picture of the Self*, Java installation.
- Sept. – Nov. 2000 Musée des Beaux-Arts, Brussels. *SaltoArte*, Tumbling Art VRML/Java installation shown in the exhibition Brussels, Crossroads of Culture, in collaboration with Larry D. Burks.
- May – August 1999 Fogg Art Museum, Cambridge, Massachusetts. *SaltoArte*, Tumbling Art, shown in the exhibition *Multiple Configurations: Presenting the Contemporary Portfolio*, curated by J. van Rhyn.
- May – June 1998 SüdwestLB Forum, Stuttgart. Symbol Wettbewerb *Stuttgart 21*, award-winning entry exhibition.
- June 1997 Palazzo del Opera del Duomo, June-September 1997, Florence, Italy
Multimedia CD-ROM from *Retrospection, Baccio Bandinelli e il Coro del Duomo a Firenze*.
- June 1998 Graduate School of Design, Harvard University. *The Digital Design Initiative Kiosk*. Computer installation. Fabrication by Michael S. Samra.
- May 1998 5th Annual Harvard Digital Video & Multimedia Fair, ABCD Committee Imaging and Visualization Working Group, Harvard University. Symbol Wettbewerb Stuttgart 21 award-winning entry and Multimedia CD-ROM on "Retrospection, Baccio Bandinelli e il Coro del Duomo a Firenze".
- October 1998 Graduate School of Design, Harvard University. Computer-related research material on show for Drawing as Research, Faculty exhibition.

PROFESSIONAL AWARDS

- March 2013 THIRD PRIZE, OPEN INTERNATIONAL COMPETITION. Passerelle des Cèdres, Switzerland, in collaboration with Alberti Ingénieurs SA Lausanne. \$21,130.00 Award.
- May 2011 SIA DESIGN AWARD 2011 (Singapore Institute of Architects) for Henderson Waves.
- May 2011 BCA CONSTRUCTION PRODUCTIVITY AWARD by the Singapore Building and Construction Authority for Henderson Waves, Singapore (with RSP).
- October 2010 SHORTLIST MOMA-PS1 Young Architects Program.
- June 2010 URBAN LAND INSTITUTE (ULI) AWARD FOR EXCELLENCE IN THE ASIA-PACIFIC. International award for Henderson Waves, Singapore (with the Singapore URA).
- May 2010 CITYSCAPE AWARD. Institute for International Research IIR Middle East) for Henderson Waves.

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- Nov. 2009 PRESIDENT'S 2009 DESIGN AWARD, Singapore. Award for Henderson Waves (with RSP).
- May 2009 STRUCTURAL STEEL DESIGN AWARD. International award from the Singapore Structural Steel Society for Henderson Waves, Singapore (with RSP).
- May 2009 BCA DESIGN AND ENGINEERING SAFETY EXCELLENCE AWARD. International award from the Singapore Building and Construction Authority for Henderson Waves, Singapore (with RSP).
- Oct. 2008 SHORTLIST BUILDING OF THE YEAR AWARD, Henderson Waves WAF, Barcelona.
- Oct. 2006 SHORTLIST YOUNG ARCHITECT OF THE YEAR, Building Design Magazine, UK.
- Sept. 2004 FIRST PRIZE, OPEN INTERNATIONAL COMPETITION, Henderson Waves, Singapore.
- May 2004 FIRST PRIZE, INVITED COMPETITION with Adams Kara Taylor Glasshouse Street SW1, UK.

ACADEMIC AWARDS

- Sept. 2003 – 2006 O1 NON-IMMIGRANT VISA AWARD INS USA (visa for scientists or artists of extraordinary ability).
- March 1998 SPECIAL PRIZE OF THE JURY International Multimedia Competition Stuttgart 21, Germany.
- Oct. 1996 RESEARCH JUNIOR FACULTY GRANT Graduate School of Design, Harvard University.
- June 1996 – 2000 O1 NON-IMMIGRANT VISA AWARD INS USA (visa for scientists or artists of extraordinary ability).
- June 1994 COMPUTER GRAPHICS GRADUATION AWARD. Graduate School of Design, Harvard University.
- June 1992 FULBRIGHT GRANT as well as a HARVARD CLUB OF FRANCE (HCF) GRANT.

PUBLISHED BOOKS

- Sept. 2012 PASTA UND DESIGN. Springer Verlag, Berlin Heidelberg 2012. Translated by Anna Schleizer.
- Sept. 2011 PASTA BY DESIGN. Thames & Hudson, London 2011. Foreword by Paola Antonelli MoMA NY.
- July 2011 MATHEMATICS OF SPACE, AD. Guest-edited by George L. Legendre, Wiley & Sons London. Includes 4 essays: The Mathematics of Sensible Things (pp. 8-18). IJP Explained (pp. 44-54). Pasta By Design (pp100-102). Implicit Fields MOCAPE Shenzhen (pp. 118-122, with Max Kahlen).

- March 2006 BODYLINE, THE END OF OUR META-MECHANICAL BODY. A book of short stories on showing the body in the age of meta-mechanical reproduction, 55 PP. AA Publications, London, March 2006.
- March 2003 IJP: THE BOOK OF SURFACES. A classic on the mathematics and philosophy of the architectural surface. AA Publications, London, 2003 (out of print).

PUBLISHED ESSAYS

- Forthcoming Henderson Waves Redux in *The Return of Nature: Sustaining Architecture in the Face of Sustainability*, coedited by Erika Naginski and Scott Cohen. Routledge New York 2012.
- December 2012 Singapore Weather Report in *Interdisciplinary Design*, Hanif Kara and Andreas Georgoulis eds, NYC Actar, 2012.
- October 2010 ACADIA 2010 Life in:formation Proceedings of the 30th Annual Conference of ACADIA. Co-edited by Aaron Sprecher, Shai Yeshayahu, and Pablo Lorenzo Eiroa, ACADIA New York. *Parametric Surface Redux: IJP Finally Explained* (pp. 37-39).
- September 2008 Out of The Equations. Equation (with Asa Nilsson) in *Formulas for Now*, formulated by Hans-Ulrich Obrist, Thames and Hudson, London.
- September 2008 New Things, public lecture transcript in *GSD 08 Platform*, Harvard GSD Cambridge MA.
- October 2007 AA Files 56, AA Publications, London. *George L. Legendre in conversation with Bernard Cache. George L. Legendre in conversation with Hans-Ulrich Obrist*. Special issue of AA Files on IJP.
- October 2006 JP's Way in *Mathematical Form John Pickering and the Architecture of the Inversion Principle*, essay on the work of British artist and mathematician J. Pickering, 100 PP. AA Publications, London.
- July 2005 Shin & I essay on the ontology of the surface. AA Files 52, AA Publications, London 2005.
- September 1999 On Metric Equivalence essay on mathematical projection and algorithmic programming. Appendix: Culture/Theory/Praxis, issue 5, Harvard University Cambridge MA, summer 1999. Related patent assessment by Harvard OTT case Liaropoulos-Legendre/S1463-97 (inconclusive).
- March 1997 On the Computer Reconstruction of Related Historical Material, in *Retrospection, Baccio Bandinelli e il Coro del Duomo a Firenze*, with Christine Smith and Jude Leblanc, Harvard GSD.
- October 1995 Iconicity and Instrumentality, a discussion with Peter Eisenman, in *Cahiers de L'IRCAM, Review of Musicology and Theory*, 1995. IRCAM, Centre Georges Pompidou, Paris France.
- December 1990 Four Articles on Le Corbusier's Villas Around Paris. Undergraduate freelance writing for L'Echo de Ville D'Avray, weekly magazine, Paris, France (issues of November 7/14/21/30, 1990).

SELECTED PRESS

- September 2013 PLOT Magazine, Buenos Aires. Out of Time 016. A profile of George L. Legendre in conversation with editor-at-large Ciro Najle.
- May 2013 Wired UK, Infinite Spiral profile of IJP's pasta mathematica.
- February 2013 Mathematische Semesterberichte, review of *Pasta Und Design* by Thomas Zonar.
- December 2012 New Computational Paradigms in Architecture Tom Verebes, Liu Yanshuan and Xu Feng Editors. Tsinghua University Press, PRC, profile of Henderson Waves pp.338-345.
- December 2012 Der Mathematikunterricht *Expedition zur kulinarischen Seite der Mathematik*, Pasta Und Design.
- December 2012 Gastronomica: The Journal of Food and Culture review of *Pasta by Design* by Denise Ramzy, University of California Press, Vol12 no 4 Winter 2012.
- November 2012 Radikal daily Istanbul, Turkey. *Tasarim Makarna*, review of installation *One and Three Pasta in Le Jardin de la Speculation Cosmique* by Neylan Bagcioglu, Galerist art gallery, Istanbul.
- November 2012 CBS On Sunday, USA 18/11/13. Full-feature conversation between George L. Legendre and CBS host Faith Salie on the office's work. Produced by Anthony Laudato for CBS Network.
- October 2012 Sonntag Aktuell daily, Stuttgart. *Die Mathematik der Nudel* review of *Pasta Und Design*.
- October 2012 TagesAnzeiger daily, Zurich. *Die Anatomie der Nudeln* review of *Pasta Und Design*.
- October 2012 Spektrum der Wissenschaft, science magazine, Heideberg. *Die Anatomie der Nudeln, on Pasta Und Design*.
- September 2012 DPA Dossier Wissenschaft, German press agency, Berlin. Review of *Pasta Und Design*.
- May 2012 Frankfurter Allgemeine Sonntagszeitung, Frankfurt. *Pasta Mathematica* extensive review of *Pasta Und Design* by Ulf Von Rauchhaupt.
- March 2012 The New Arcadians: Emerging UK Architects, by Lucy Bullivant. Merrell Publishers London. Extensive practice profile and interview with G. L. Legendre.
- January 2012 New York Times, USA. *Pasta Graduates From Alphabet Soup to Advanced Geometry*. *Pasta By Design* reviewed by Kenneth Chang.
- December 2011 National Public Radio, USA. "Booksellers' Picks: Catch The Year's Freshest Reads". *Pasta By Design* proudly selected by National Public Radio, USA. Available online.

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- November 2011 Oprah.com, USA. "7 Pasta Shapes We've Never Seen Before", *Pasta By Design* review.
- October 2011 MacLeans magazine, Toronto. ..."The Trigonometry of Tortellini", *Pasta By Design* reviewed by Anne Kingston.
- October 2011 The New Scientist, UK. "Spaghetti Functions: The mathematics of Pasta Shapes", *Pasta By Design* review by editor Richard Webb.
- September 2011 The Wall Street Journal, USA. "The Mathematics of Macaroni", *Pasta By Design* review.
- August 2011 The Financial Times Magazine, UK. "The pasta Equation", excerpt from *Pasta By Design*.
- August 2011 Dezeen Online magazine, UK. *Pasta By Design* on front page. 5 copies offered to readers.
- February 2011 Arcfreeze Architectural Website 14/02/2011. PS1 YAP 2011 entry: 'Ghost House'.
- January 2011 ME Newswire Middle East Press Release Abu Dhabi, UAE. LAGI 2011 entry: 'PV Dust' by IJP September 2010 Land Art Generator Initiative Press Release Abu Dhabi, UAE. LAGI 2011 entry: 'PV Dust' by IJP.
- September 2010 Anders Bekeken Web Blog Abu Dhabi, UAE 12/01/2011. LAGI 2011 entry: 'PV Dust' by IJP.
- January 2009 Domes 11/08 Bridges II, Athens. Profile of Henderson Waves, Singapore, pp.106.
- January 2009 Ingenia 38 # The Royal Academy of Engineering, London. Henderson Waves profiled by Paul Scott.
- November 2008 Beijing Biennale 2008, Exhibition Catalogue, Beijing. Edited by Neil Leach.
- November 2008 Design Engineering, by Hanif Kara and Michael Kubo, Actar, Barcelona. In-depth study of Henderson Waves, pp 274-285.
- October 2008 Pasajes de Arquitectura y Critica 100%, Year 10, No 100. Madrid. Henderson Waves profiled.
- September 2008 Ponti I viadotti, by Antonio Tramontin, Edilstampa, Rome pp. 128-134. Henderson Waves profiled.
- August 2008 Formulas for Now. Formulated by Hans-Ulrich Obrist, Thames & Hudson, London, p. 104.
- August 2008 ICON, issue 62 London UK. Henderson Waves profiled.
- June 2008 Mondo Arc, International Magazine for Lighting issue 44, London UK. Henderson Waves profiled.
- April 2008 RIBA Journal, London UK. Singapore Sling by JC Kucharek, profile of IJP and Henderson Waves.

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- October 2007 AA Files 56, AA Publications, London. Special issue on IJP with 30 pages of projects and conversations between George L. Legendre, Bernard Cache and Hans-Ulrich Obrist.
- June 2007 Young Architects Expose, 24 Emerging London practices, exhibition catalogue, GLEEDS UK.
- June 2007 Pavilion Seroussi: Architectures de Collectionneur, exhibition catalogue, HYX Publisher, Paris.
- April 2007 The Computational Turn, Maison de l'architecture, Marseille, Exhibition catalogue, HYX, Paris.
- February 2007 Building Design, issue 1759, London. Young Brits Up for Bloc House Job, on IJP's selection to an international invited competition.
- January 2007 VERB : Natures. Actar, Barcelona 2006. Surface Bridge : IJP George L. Legendre, full profile.
- November 2006 Building Design, issue 1745, YAYA 2006 Runner Up, on IJP's national recognition.
- October 2006 Beijing Biennale 2006, Exhibition Catalogue. Edited by Neil Leach, Beijing 2006.
- October 2006 Building Design issue 1742, London. Five Young Architects short-listed for 2006 YAYA.
- March 2005 Building Design issue 1665, London. Designing By Numbers, by David Littlefield.
- October 2004 Singapore Architect, Issue 224, Singapore. Southern Ridges Bridge Design Competition 02, profile of IJP Corporation's winning entry.
- November 2003 Architectural Research Quarterly, volume 7, number 3/4, Cambridge University Press. On the Poetry of Matrices, review of IJP, The book of Surfaces by Peter Carl in.
- November 2003 The Journal of Architectural Education, Vol. 57 Issue 2, ACSA, MIT Press. Thick Skins: The complexity of the Superficial, review of IJP, The book of Surfaces by Illa Berman.
- July 2003 Building Design, issue 1588, London. The Number's Up, review of IJP, The book of Surfaces by Neil Spiller.
- May 1998 Symbol Stuttgart 21 catalog of the exhibition Symbol Wettbewerb Stuttgart 21, Mind S 21, Stuttgart.
- July 1998 The Digital Unbuilt, by B.J. Novitski, Rockport Publisher, Seattle. Selected Imagery from Retrospection, Baccio Bandinelli e il Coro del Duomo a Firenze.