

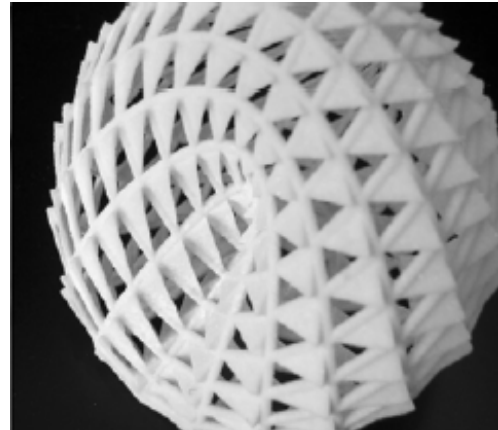
DIGITAL DESIGN AND GENERATIVE GEOMETRY IN ARCHITECTURE: THE WORK OF FOSTER AND PARTNERS' SPECIALIST MODELLING GROUP

An LKL Maths-Art seminar by
Brady Peters and
Xavier DeKestelier,
Foster & Partners, London

Tuesday 13 March, 6.00 – 7.30pm
London Knowledge Lab
Emerald Street WC1N 3QS

Foster and Partners is an international studio for architecture, planning and design led by Norman Foster and a group of Senior Partners. The advent of digital technologies has allowed the practice to design and build structures with complex geometric forms that would not have been feasible as little as twenty years ago. The practice's in-house Specialist Modelling Group (SMG) has introduced a highly advanced three-dimensional computer modelling capability that allows architects both to explore design solutions rapidly and to communicate data to consultants and contractors.

The SMG, currently a team of seven, was formed in 1997 and has been involved in over 100 projects, providing consultancy in advanced 3-D modelling techniques, and the creation of custom digital tools.



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SMG expertise encompasses architecture, art, maths and geometry, environmental analysis, geography, programming and computation, urban planning, and rapid prototyping.

The SMG specialists are a new breed of architectural designer, the **digital design specialist**, requiring an education based in design, maths, geometry, computing, and analysis. Digital design specialists use geometry as a means of description and as a way to harness the complexity of a building design, seeking to use science in an artistic manner. This requires a new range of skills, which are not part of architects' training and thus one of the roles of the SMG is the education of architects in the use of digital techniques and the role of geometry in design of buildings.

Brady and Xavier, both members of the SMG, will introduce the Group's work, and also the work of the **SmartGeometry Group** (smartgeometry.com), an independent, international organisation involving experts from leading architectural practices and CAD software houses, whose aim is to advance education and research in the area of 3D CAD applications.

All welcome. No registration or ticket required, but an email to lkl.maths.art@gmail.com is appreciated to assist with planning.

LKL Maths-Art

This seminar is part of an regular series of maths-art seminars held at the London Knowledge Lab, usually on the second Tuesday of each month during term times. To receive email announcements about events, subscribe to the mailing list at www.dcs.bbk.ac.uk/mailman/listinfo/lkl-maths-art .

Getting to the London Knowledge Lab

Nearest tube stations are: Holborn (Central, Piccadilly lines), Russell Square (Piccadilly line).

