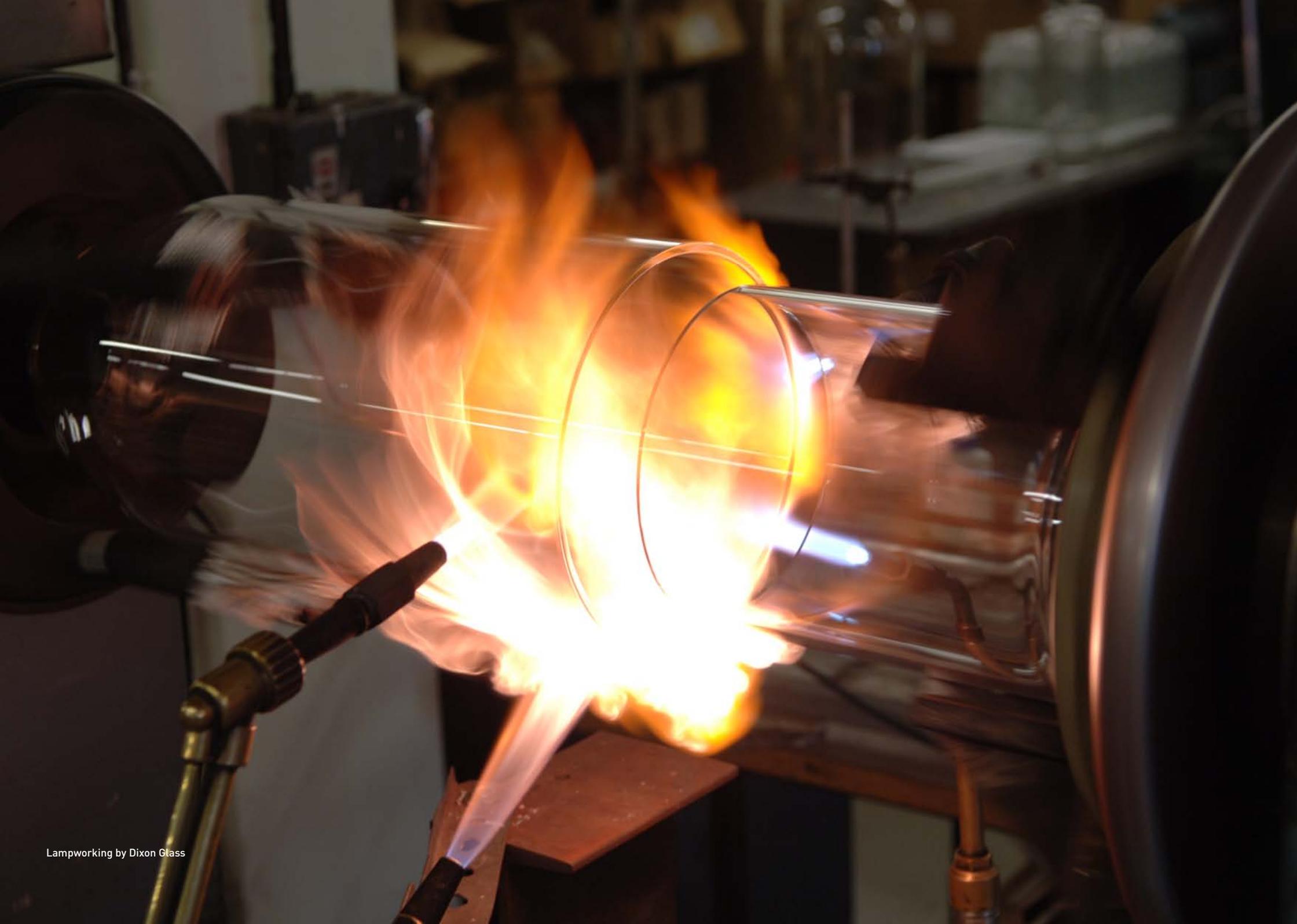


Mode of Production

20–23 September 2007

Rob Thompson





Grito lampshade by Mathmos

Introduction

Exhibition and exclusive preview of a new book, **Manufacturing Processes for Design Professionals** by Rob Thompson, published on 15 October 2007 by Thames & Hudson. The author has travelled to some of the most innovative factories in the world in search of exciting manufacturing case studies. This exhibition pays homage to the wealth of manufacturing heritage and expertise that the UK has to offer. **Mode of Production** showcases installations that demonstrate materials and manufacturing processes for designers, architects and engineers. **Mode of Production** is an opportunity to see how products are made, discover innovative materials and meet the manufacturers behind the processes.

Book Preview

Thursday 20 September 2007 (18.00–21.00)

Exhibition continues

20–23 September 2007 (10.00–19.00 daily)

Location

Designersblock
Nicholls and Clarke Building
3–10 Shoreditch High Street
(Entrance on Blossom Street)
London E1 6PE



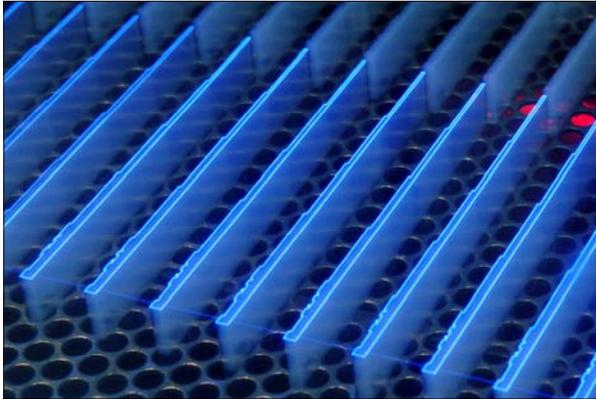
Mode of Production

CRDM

Based in High Wycombe, the Centre for Rapid Design and Manufacture (CRDM) has established itself over the last 10 years as a 'one-stop-shop' for organisations looking for assistance in many areas of rapid prototype manufacture.

CRDM has been involved in the UK rapid prototyping community since 1995, and was one of the first companies in the UK to embrace the SLA process with 3D Systems very first machine, the SLA90.

CRDM has a wide range of rapid prototyping and manufacturing technology in-house, including plastic and metal sintering, stereolithography (SLA), and the more traditional vacuum casting, CNC machining and injection moulding.



Products and services

- Selective laser sintering (SLS)
- Stereolithography (SLA)
- Direct metal laser sintering (DMLS)
- Vacuum casting
- Rapid tooling for injection moulding and blow moulding
- Micro modelling
- Computer aided design (CAD)

CRDM Ltd

Wycombe Sands
Lane End Road
High Wycombe
Buckinghamshire
HP12 4HH

T +44 (0)8450 514900

www.crdm.co.uk

Dixon Glass



A.W.Dixon Ltd was established in 1922. Today, as Dixon Glass Ltd they continue to produce high quality glassblowing for scientific and non-scientific applications.

As globalisation has advanced Dixon Glass Ltd have adjusted accordingly. Their expertise includes bespoke scientific glassware, labware and glass products for design and architectural applications. Through a worldwide network Dixon Glass Ltd supply mass-produced commodity items for scientific and non-scientific applications including standard scientific glassware and labware, storage and preservation jars, and extruded glass tubing and rod.

Products and services

- Laboratory products
- Bespoke precision glassware
- Standard scientific glassware and labware
- Storage and specimen jars
- Architectural glass products
- Glass components
- Extruded glass tubing and rod
- Prototyping

Dixon Glass Ltd

127-129 Avenue Road
Beckenham
Kent
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Dean Group International

Dean Group International are engineers that work closely with their clients to find the most appropriate and cost effective method of manufacturing their components in a wide range of materials including iron, carbon and stainless steels, specialist materials including titanium and a range of non-ferrous materials.

Dean Group International has operated a foundry for over 35 years. Their specialist knowledge and advice at the design stage combined with their skills and expertise gained from manufacturing, ensures reliable and quality product delivered on time and at a competitive price. Dean Group International has a long established customer base and are committed to developing long-term supply partnerships with new customers.



Products and services

- Design and engineering
- Investment casting
- Die casting
- Sand casting
- Machining
- Sub assemblies
- Heat treatment
- Surface finishing

Dean Group International
Brinell Drive
Northbank Industrial Park
Irlam
Manchester
M44 5BL

T +44 (0)161 7751633

www.deangroup-int.com

Howarth Timber Engineering



Howarth Timber Engineering is a modern timber engineering business that is part of the Howarth Timber Group, a privately owned timber company established in 1840.

Man has always used timber to build structures and with the increased emphasis on using sustainable materials, timber is frequently the preferred option. Computer aided design and modern production techniques continue to develop new and innovative applications for this natural material which is one of our key renewable resources. Howarth operate an externally audited Quality Management System to ISO 9001:2000 and product conformity schemes for truss and timber frame. Howarth use timber from sustainable and legal sources and are Chain of Custody certified to all the major timber certification schemes.

Products and services

- Timber frame structures
- Trussed rafters
- I beam floors
- Floor and roof cassettes
- Design, manufacture and installation service

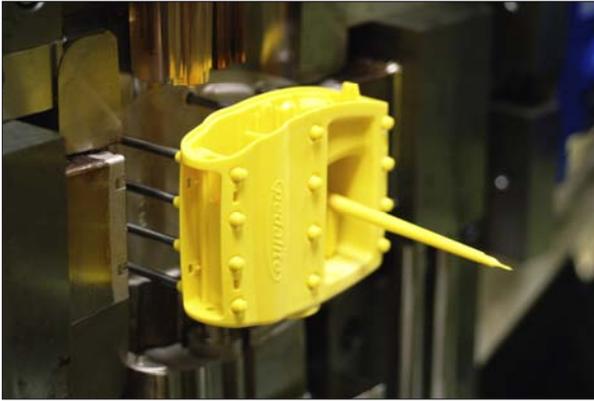
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IP32 7QW

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Group website
www.howarth-timber.co.uk

Engineering website
www.howarth-te.com

ENL



For nearly 50 years ENL has been dedicated to excellence in the manufacture of high quality mould tools and technical injection moulding, machining and assembly. They have expertise in moving products from concept, through to prototyping and ultimately into high volume production.

ENL has a proven track record in the design, development and manufacture of many successful products. As a result, they have attracted a diverse range of blue chip organisations. ENL are approved suppliers to Airbus Industries and BAe Systems, and are working towards the Automotive QA System TS16949. Their broad customer base includes aerospace, defence, automotive, electronic, medical and industrial.

Products and services

- Design
- Tooling
- Injection moulding
- Insert overmoulding: horizontal and vertical
- Machining
- Assembly
- Printing

ENL Ltd

Units 6-8
Victory Trading Estate
Kiln Road
Portsmouth
Hampshire
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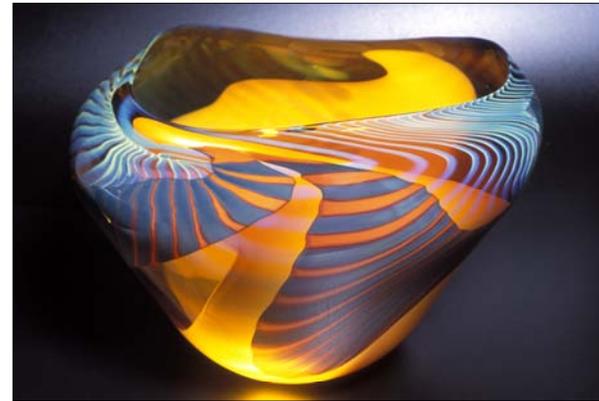
T +44 (0)239 2668517

www.enl.co.uk

Peter Layton

Peter Layton's London Glassblowing is a hot glass studio focussed on the creation and display of contemporary glass art. The studio has a reputation as one of Europe's leading glass making workshops, with a particular flair for the use of colour, form and texture.

Peter Layton and Associates, its sister company, excels in combining glass with metals to create exciting artworks that enrich public and private spaces. Renowned for versatility in design and the innovative use of materials, they have an outstanding record for successfully completing projects within budget and on time, consistently achieving imaginative results.



Products and services

- Decorative glass in sculptural and functional forms
- Restoration
- Lighting
- Awards
- Presentation pieces
- Architectural screens and panels
- Water features
- Atrium sculptures

Peter Layton

7 The Leather Market
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www.londonglassblowing.co.uk

Mathmos

Famous for inventing the cult classic the Astro 'Lava Lamp' in 1963, today Mathmos specialises in designing, manufacturing and marketing products that seek to engage people with light in magical new ways.

The Mathmos in-house team works with emerging designers and leading names such as Azumi, Ross Lovegrove and El Ultimo Grito to build new, beautiful and engaging lights. New light technologies such as the Airswitch™ and Mathmos Mobiles™ have seen Mathmos move to the forefront of light invention.

Sold globally through www.mathmos.com and a network of retailers, Mathmos has won two Queen's Awards for Export.



Products

- Shades: Grito and Grito
- Airswitch: Airswitch Az, Airswitch 1, Airswitch tc and Airswitch O
- LEDs: Aduki Ni, Bubble, Tumbler, Aduki, 9Volts, Light Charms, Eclipse, Tuba, Softlight and Big Blimp
- Space Projector: Oil Wheels and Limited Edition Graphic Packs
- Candlelight: Melt, Float and Thaw
- Lava Lamp: Astro, Astro Baby, Telstar, Fluidium and Replacement bottles

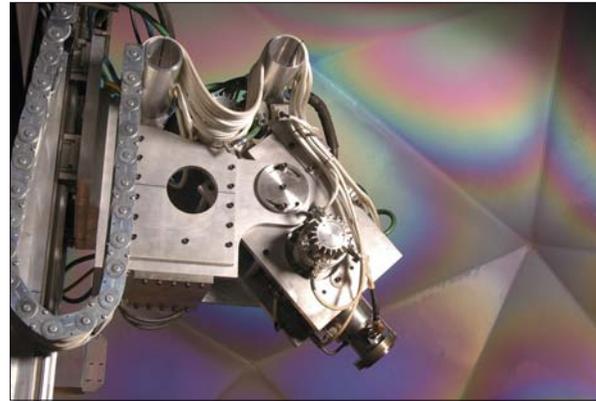
Mathmos

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TWI



TWI is one of the world's foremost research and technology organisations. From bases in UK, Brazil, China, Malaysia and the Middle East, 550 staff provide technical support in joining and technologies such as material science, structural integrity, non destructive testing, surfacing, electronic packaging and cutting. Services include contract R&D, technical information, consultancy, standards drafting, training and qualification. TWI offers a single, impartial source of service for joining engineering materials.

TWI is internationally renowned for its multidisciplinary teams that implement established or advanced joining technology solving problems at any stage – from initial design, materials selection, production and quality assurance, through service performance to repair.

Technologies

Adhesive bonding, arc welding, brazing, soldering, ceramics joining, composites joining, corrosion, cutting, diffusion bonding, electron beam processing, friction processing, laser processing, mechanical fastening, metallurgy, microjoining, non destructive testing, plastics welding, resistance welding, structural integrity, surface engineering and flame processes

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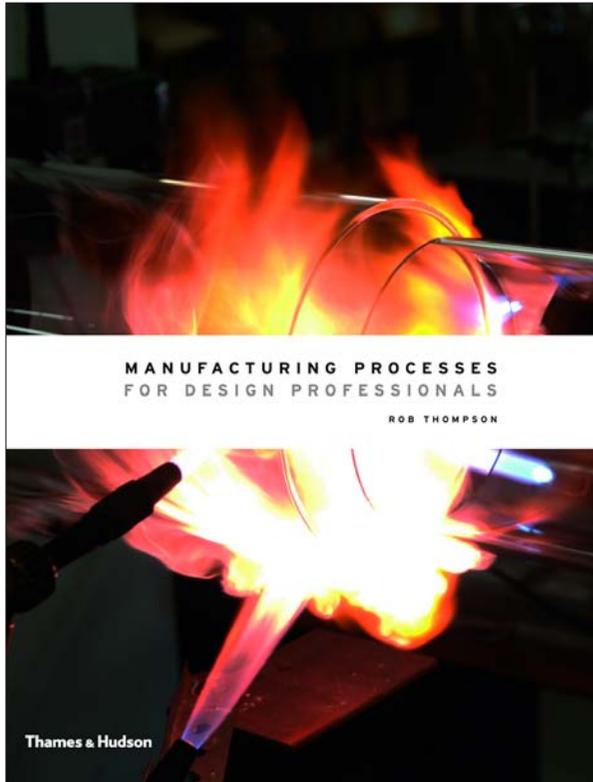
www.twi.co.uk



Thames & Hudson

Manufacturing Processes for Design Professionals

Rob Thompson



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There is absolutely no precedent for this book, the only encyclopaedic guide to manufacturing processes that explores established, new, emerging and innovative production techniques that have, or will have, an important impact on the design industry. With over 1,200 photographs and technical illustrations, it is the definitive reference for 3D designers, product designers, architects and engineers who need a convenient, highly accessible and practical reference that will facilitate fast and efficient decision making in design projects.

Rob Thompson is a lecturer at Central Saint Martins, London, specialising in materials and manufacturing. He is co-founder of Creative Resource Lab, which provides design innovation training for businesses and design professionals. An award-winning designer, he is involved in the development of materials and products for a range of international clients.

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