'SHIBORI: DIGITAL INTERVENTIONS'

DR KATE WELLS RCA

J. MATHEWS, J. (1906)

APPLICATION OF DYESTUFFS TO TEXTILES, PAPER, LEATHER AND OTHER MATERIALS. NEW YORK: JOHN WILEY AND SONS

'To the chemist [craft dyeing] should prove an attractive field in the devising of ingenious methods of applying dyestuffs and mordants to produce effects by hand treatment that are hardly thought of by the ordinary dyer.

And there is always the possibility that many of these processes may be adapted subsequently to large scale production that will give results of a higher degree of quality and taste.'

ACROSS THE WORLD & ACROSS CULTURES

18th Century

<u>Tie-Dyed, Clamped & Printed Resists</u>

- India Hand-tied
- Block-printed copies
- Japan- Hand-tied
- Machine Aided
- Woven

19th Century

<u>Tie-Dyed, Clamped & Printed Resists</u>

- Hand-tied: Ikat Indonesia
- Hand-tied: Ikat Europe
- Printed Warps:
 England & France
- Itajime Gasuri -Clamped warps
 Japan

ACROSS CULTURES- HAND & TECHNOLOGY

20th Century

<u>Tie-Dyed, Clamped & Printed Resists</u>

- Clamped
- Tied
- Stitched
- Roller
- Screen
- Machine-Dyed
- Block & Screen Printed Warps- Woven

21st Century

Hand & Technology

- Hand Craft Artist
- Digitally Printed Warps
- Digital Copy
- Digital Manufacture
- Technology revived

TIED, STITCHED & WOVEN RESISTS

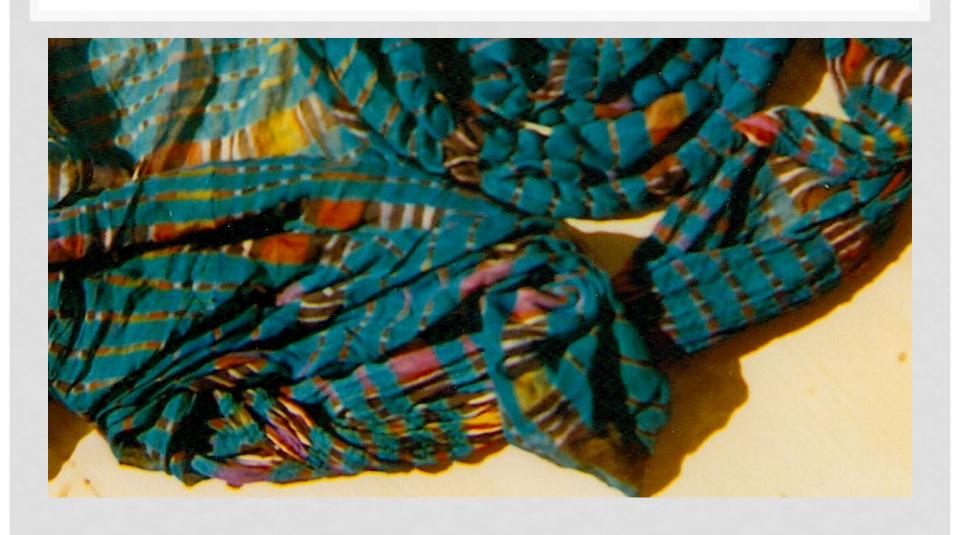
<u>India – Bandhani & Laharia</u> <u>& Europe</u>

- Hand Tied
- Clamped
- Block-printed copies
- Screen-Printed copies

<u>Japan – Shibori</u>

- Hand tied
- Hand tying Tools
- Machine Aided
- Woven

LAHARIA



INDIA – LAHARIA 20TH CENTURY

Original Laharia



Printed Copy



JAPAN – SHIBORI; MACHINE AIDED & WOVEN

Tied & Stitched

- Hand
- Tying Tools

<u>Semi-Automated</u>

- Kikaigumo Shibori machines
- Looms inserting extra warp or weft as stitching threads

Compression

Arashi

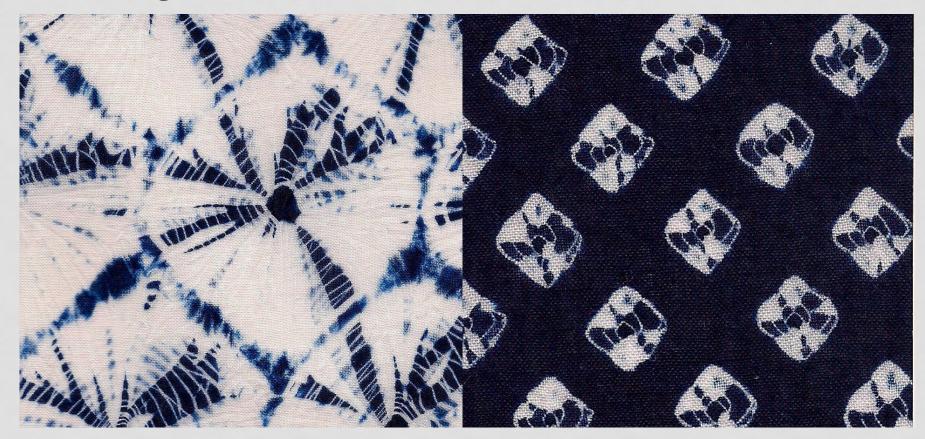
Clamped

- Itajime
- Itajime Gasuri

TYING TOOLS

Tegumo Shibori

Rasen Shibori



SEMI-AUTOMATED - MECHANICAL



Kikaigumo Shibori

Arimatsu – Nagoia – Japan An electric tool is used to hold the cloth taught and to bind the cloth. This technique is semi automated and is more efficient produces finer patterns that Tegumo Shibori

AUTOMATED- MACHINE TIED JAPAN 1997



WOVEN SHIBORI: JAPAN 1997





WOVEN SHIBORI-ACQUIRED IN HANGZHOU CHINA. 2013





PRINTED COPY PRE - DIGITAL

20TH CENTURY- DR KATE WELLS

HAND-RENDERED POSITIVE FOR FLAT SCREEN OR ROTARY PRINTING

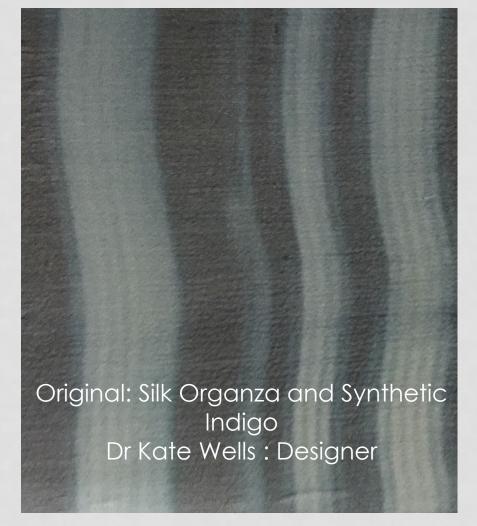


MONKWELL – ORIGINAL AND FINAL COPY WITH A BLOCK PRINTED RESIST





MONSOON ORIGINAL AND FINAL COPY WITH A BLOCK PRINTED RESIST

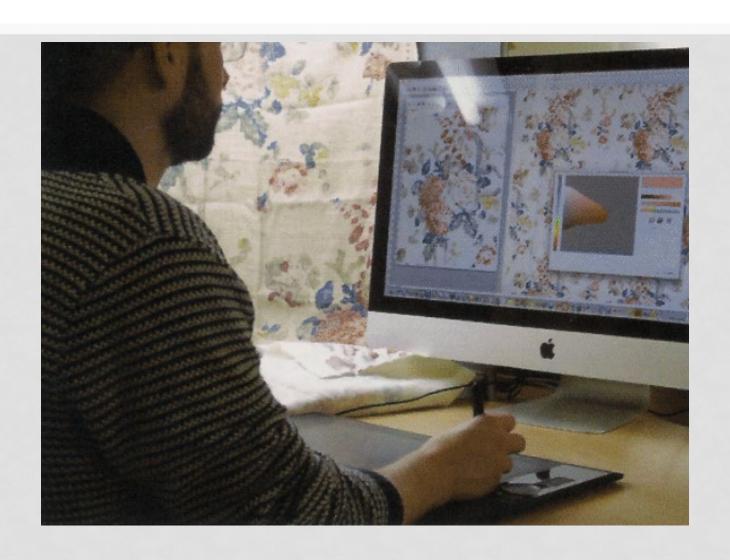




NOW & THE FUTURE

21ST CENTURY

DIGITISED AND COLOUR MODIFIED



F. SCHUMACHER – TURNBULL DESIGNS DR KATE WELLS: DESIGNER





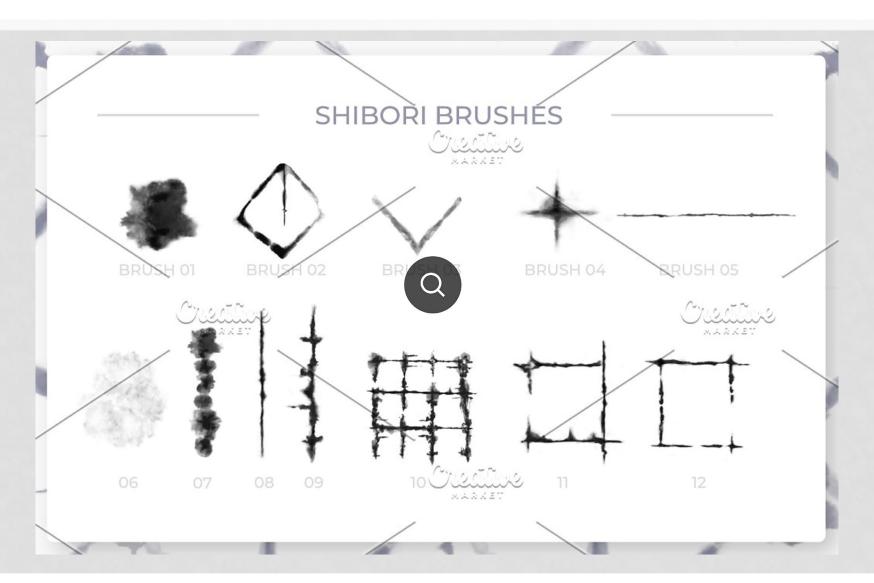
This printed linen evokes the traditional Japanese dye technique of shibori. With its soft, blurred edges
Andromeda offers a splash of color and pattern.

MELANIE BOWLES: DIGITAL SHIBORI 2010. CRAFT COUNCIL UK 2019



DIGITAL SHIBORI TIE-DYE

PATTERNS BRUSH SET FOR PHOTOSHOP



DIGITAL COPY

patternbank Designs Collections Premium Trends Blog



IKAT TIED - PRINTED - WOVEN COPY

Origins

- Bali Ikat
- Uzbekistan Ikat
- Japan Karsuri (Ikat)

Copy

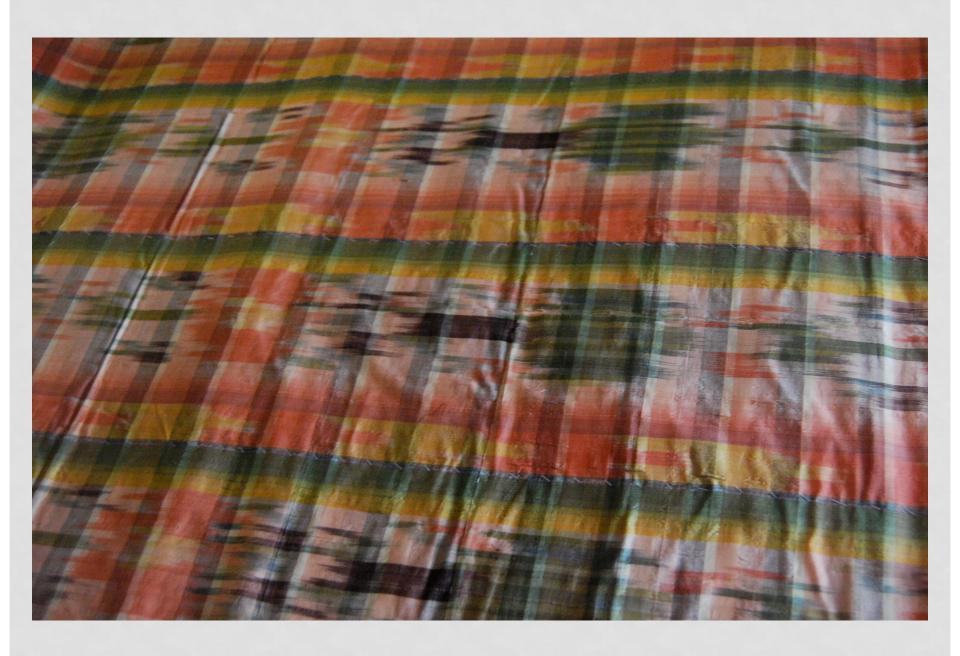
- France C19th
 Block printed warps
- England C20th
 Shadow Prints
 - Japan C20th
 Itajime Gasuri

COMPLEX IKAT COAT FROM UZBEKISTAN



BLOCK PRINTED WARPS: LYON C1800 FOR MARIE ANTOINETTE





SHADOW PRINTS: C1920-30'S TURNBULL & STOCKDALE





'E-GASURI' OR 'ITAJIME GASURI' JAPAN 20TH CENTURY



ITAJIME GASURI DOUBLE IKAT EFFECT



DIGITAL WARP: PRINTING AND PRE-WEAVING



DIGITALLY PRINTED WARP BEING WOVEN FOR IKAT EFFECT.



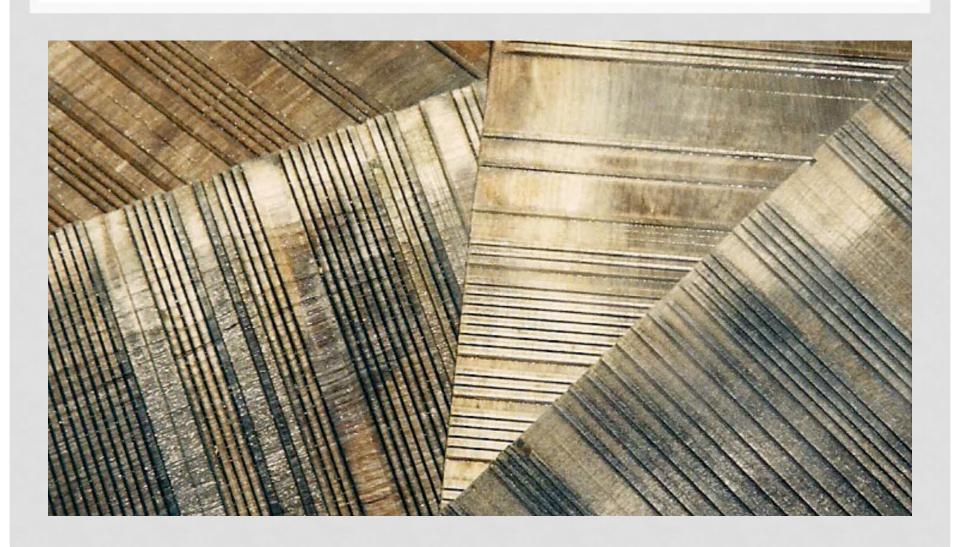


Warp slippage Produces an Ikat effect

CASE STUDY

INVENT - RE-INVENT ITAJIME GASURI

COLLECTION OF ITAJIME GASURI BOARDS PRESENTED AS A GIFT - 1997



EACH SIDE MATCHES EXACTLY TO PREVENT DYE PENETRATION



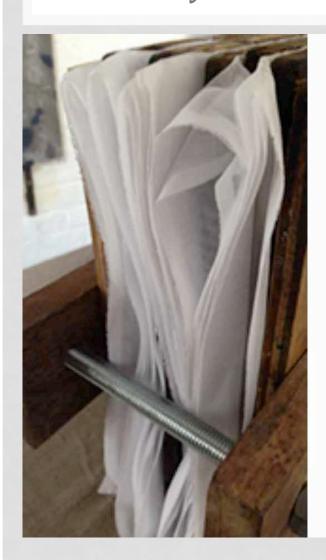
POST-DYEING ONCE BOARDS ARE REMOVED WITH SMALLER BOARDS



DESIGN RESEARCH EXHIBITION FOR PHD 'RESIST PATTERNING FOR CONTEMPORARY FABRICS'



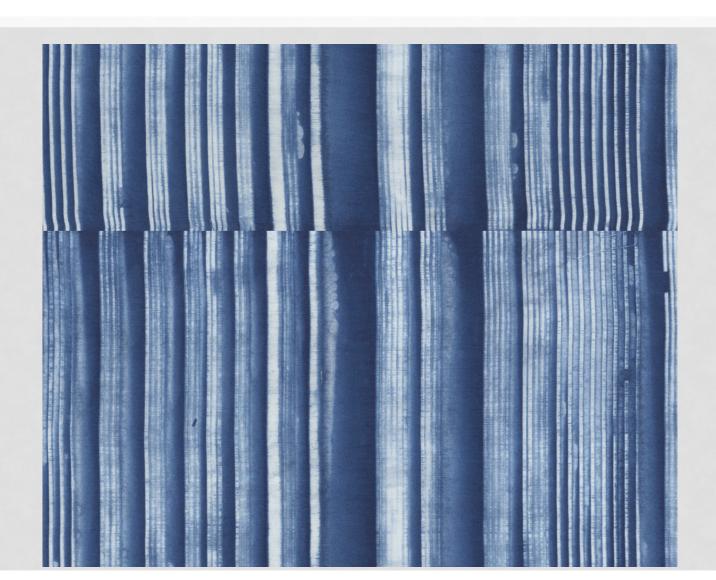
INITIAL HAND PROCESS: ITAJIME AND SYNTHETIC INDIGO







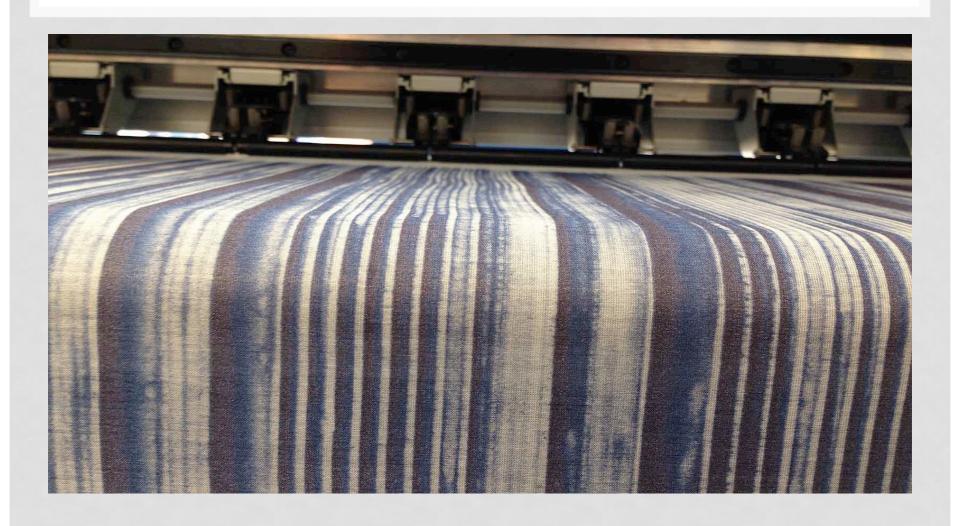
DIGITAL MANIPULATION OF SCAN IN PHOTOSHOP



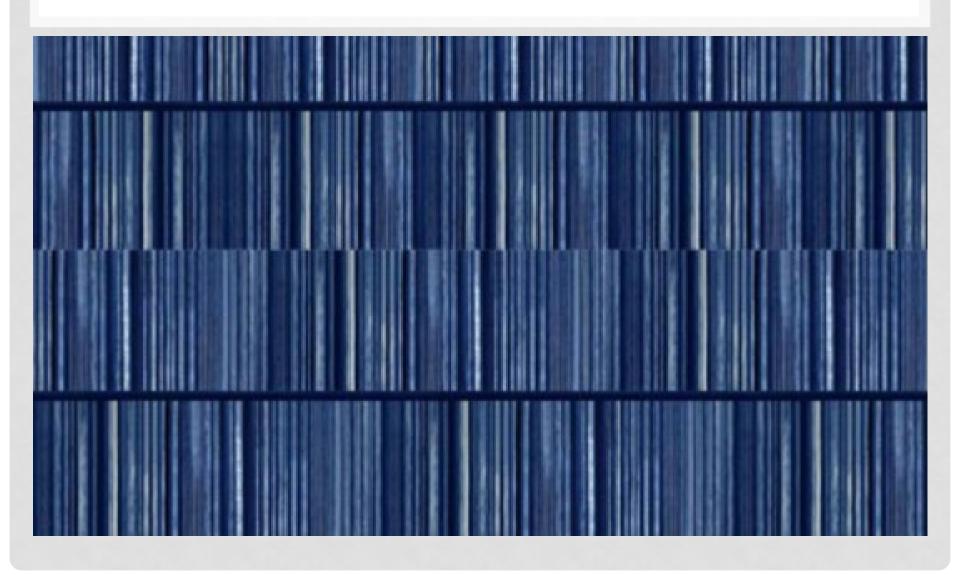
FINALISED DIGITAL AND MODIFIED IMAGE



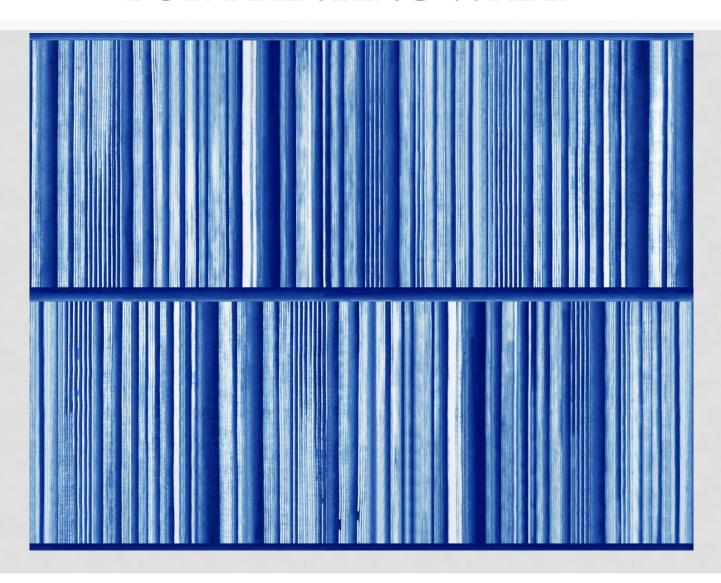
DIGITAL PRINTED ITAJIME GASURI



'ITAJIME GASURI: DIGITAL WARPS'



FINALISED DIGITAL FILE AND DESIGN FOR PRINTING WARP



ITAJIME: DIGITAL WARP BLUE

DR KATE WELLS 2014KATEELLS 2014





DIGITAL PROCESSES are facilitating the revival rather than the survival of the 'HANDMADE' process.

PAUL TURNBULL PRINTS go further than using digital Technology to mimic the traditional, but look at the soul of the HANDCRAFT to create new and exciting hybrid textiles

COLLECTION OF DIGITALLY CREATED CLAMPING BOARDS





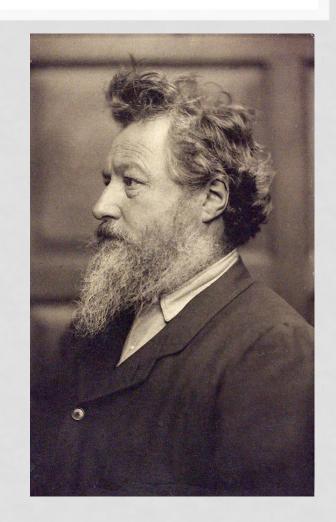


Jo Newton, University of Derby. 2013

IN CONCLUSION

Surely it is the duty of each one of us to strive that this heritage may pass on to our successors unimpaired in beauty, and no less instructive to them than it has been to us, and to fight earnestly against modern vanity which would obliterate all traces of the bygone days when Art was living, with the dull nineteenth century stamp of feeble copyism or wilful falsification.'

William Morris



PERSONAL MANTRA

What use is high technology if we do not know the soul of the craft?'

Junichi Arai. 1997 India