Welcome to

Advanced Textiles EXPO®

ORGANIZED BY ATA



Scaling Textile Engineering from Consumer Play to National Defense

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Education

BUFFALO STATE
The State University of New York

FIT
Fashion Institute
of Technology
State University of New York



Work Experience

macy's

MATTEL

BK COLLECTIBLES™ BRASS KEY, INC.

NORDSTROM

EXOFFICIO®

NOBLE BIOMATERIALS

ionic+ Botanical Antimicrobial

luna refab

1865 THE UNIVERSITY OF MAINE

ADVANCED STRUCTURES & composites center



Senior Textile Engineer



1988

Career highlights

- Implemented 2D and 3D CAD capital expenditure for Design Center
- Engineered functional textiles that were made globally, Asia travel
- Implemented paper recycling program saving up to 300,000 lbs/2550 trees annually
- Engineered magnetic and crimp-able patent worthy fabrics
- Established an excess inventory library for Design and Development diverting textile waste from land fills

- Challenged to use 100% excessive inventory.
  - Reduce carbon footprint
  - Increase profit
  - Reduced design->delivery by 20 weeks

Director of R&D Performance Textiles

NOBLE BIOMATERIALS

lululemon

Largest customer using Silverescent™ powered by X-Static® silver coated nylon

ionic+ Botanical Antimicrobial

Earned a patent using botanical ingredients for long lasting anti-microbial performance on textiles.

Other performance brands using Noble Biomaterial products

ATHLETA

RHOBACK

SUN DAY RED

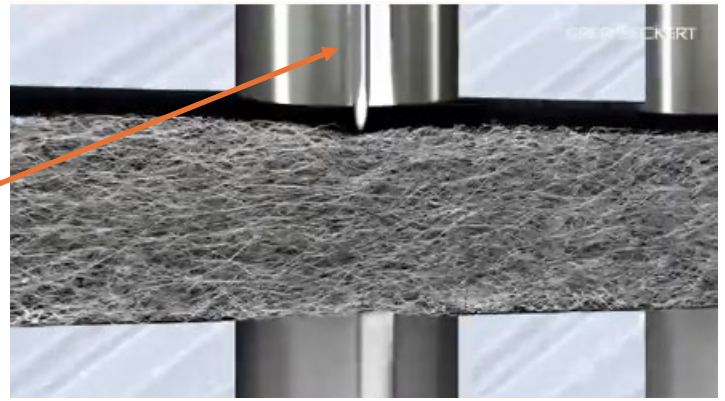
MACK WELDON

FABLETICS

Advanced Textiles EXPO®

Founder, Luna reFab

- Upcycle Circular Textile Waste Solutions in fabric form
- Create value added textiles without the use of water, dyes or chemicals.
- Needle punch technology is used to create a composite fabric of textiles destined to landfill or incinerator.
- Agnostic raw material, no need to separate fibers prior to melding the fibers and fabrics.



Luna reFab | Upcycle Textile Waste Solutions
lynn@lunarefab.com

Senior Research Textile Manager

ADVANCED STRUCTURES & composites center

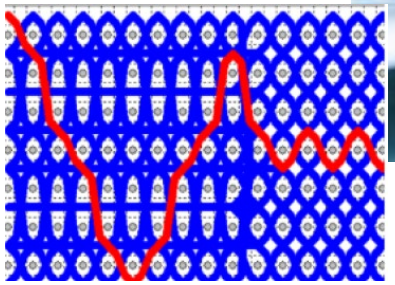
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Head of Fiber and Research Specialty Textile (FASTR) Lab

Innovation chain from polymers to dry preforms to composites

- Compound resins into pellets
- Melt spin BICO fibers
- Characterize
- Physical test
- Twist
- 2D and 3D Weave
- 2D and 3DKnit
- Embroider
- Support Student Workforce Development





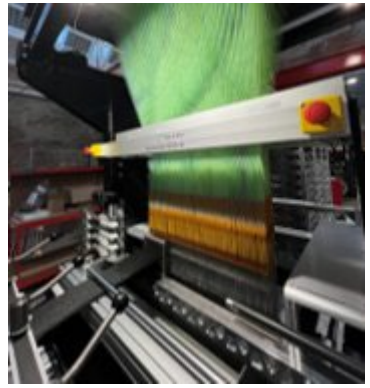








Image credit: Dr. Topher Anderson



Advanced Textiles EXPO®

IMPACT for success

- **I**gnite passion
- **M**ake your own opportunities
- **P**romote your successes
- **A**ct fast
- **C**haracter and learn through failures
- **T**hink big & dream

3 C’s

- Co-opetition
- Collaborate
- Challenge



Questions?

Thank you for attending




See You Next Year In
Charm City
Baltimore
MARYLAND
Advanced Textiles
EXPO®
Oct. 26–28,
2027

See you next year!

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