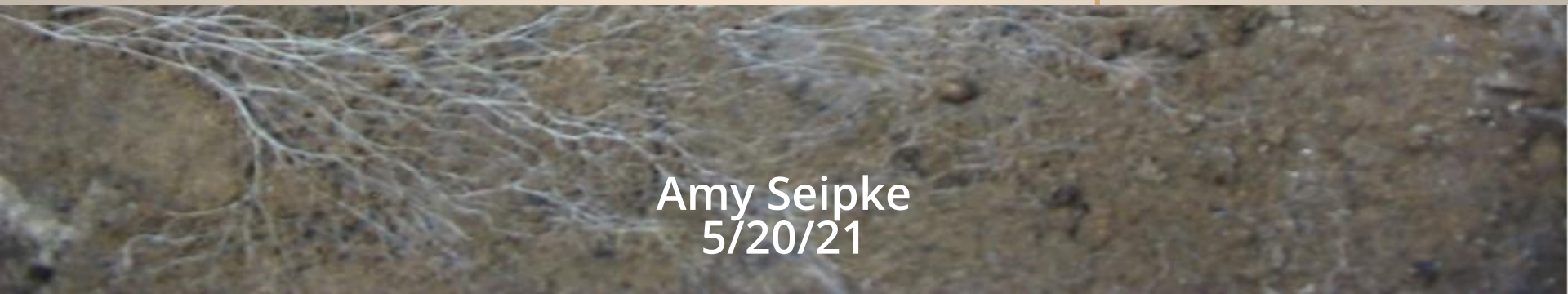
Mycelium Workshop Initiative:

Engineering & Mathematics Librarian Presentation



Amy Seipke
5/20/21

The International Contemporary Furniture Fair

https://icff.com/



What is Mycelium?



https://en.wikipedia.org/wiki/Mycelium

Hy-Fi Tower at MoMA



https://www.treehugger.com/thmb/7_Ohgq0Cs8kDEQjBlzvToU2ih4Q=/727x727/smart/filters:no_upscale()/__opt__aboutcom__coeus__resources__content_migration__treehugger__images__2014__07__hyfi-moma-ps1-the-living-dd162ea948384751b0b3012039b54e55.jpg



http://architizer-prod.imgix.net/media/1426184186129196 63_03_56979.jpg?w=1680&auto=format,compress&cs=strip&q=60

Growing Mycelium Foam with Solid State Fermentation



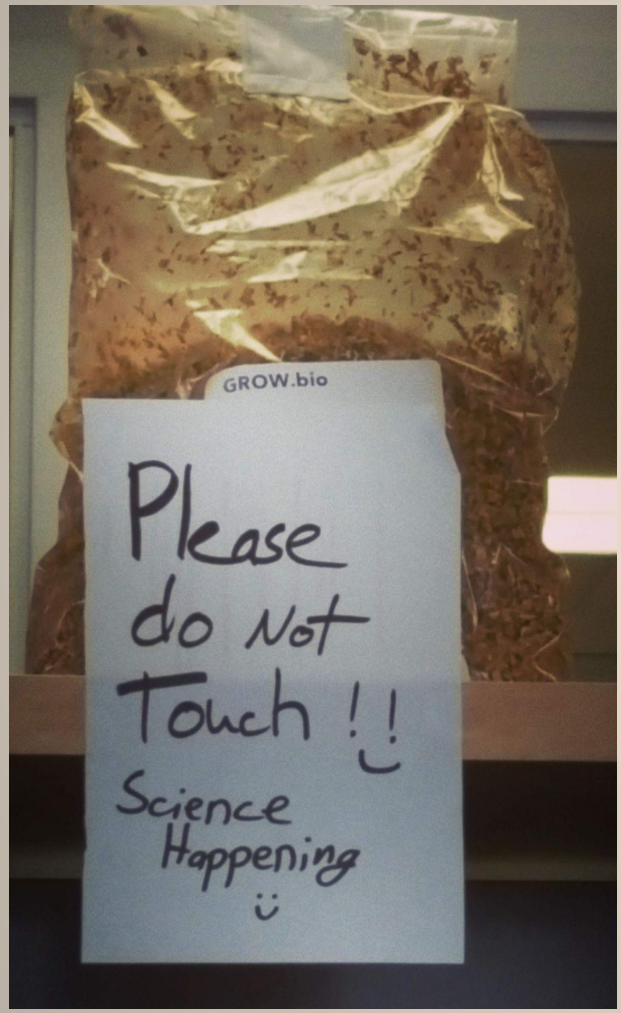








https://www.atlastfood.co/method



It’s Alive!!



https://grow.bio/

MAKE MYCELLIUM MOLDS

MUSHROOM MOLDS TO SIMPLE SHAPES



AT THE

COLORS & MATERIALS LIBRARY

ON

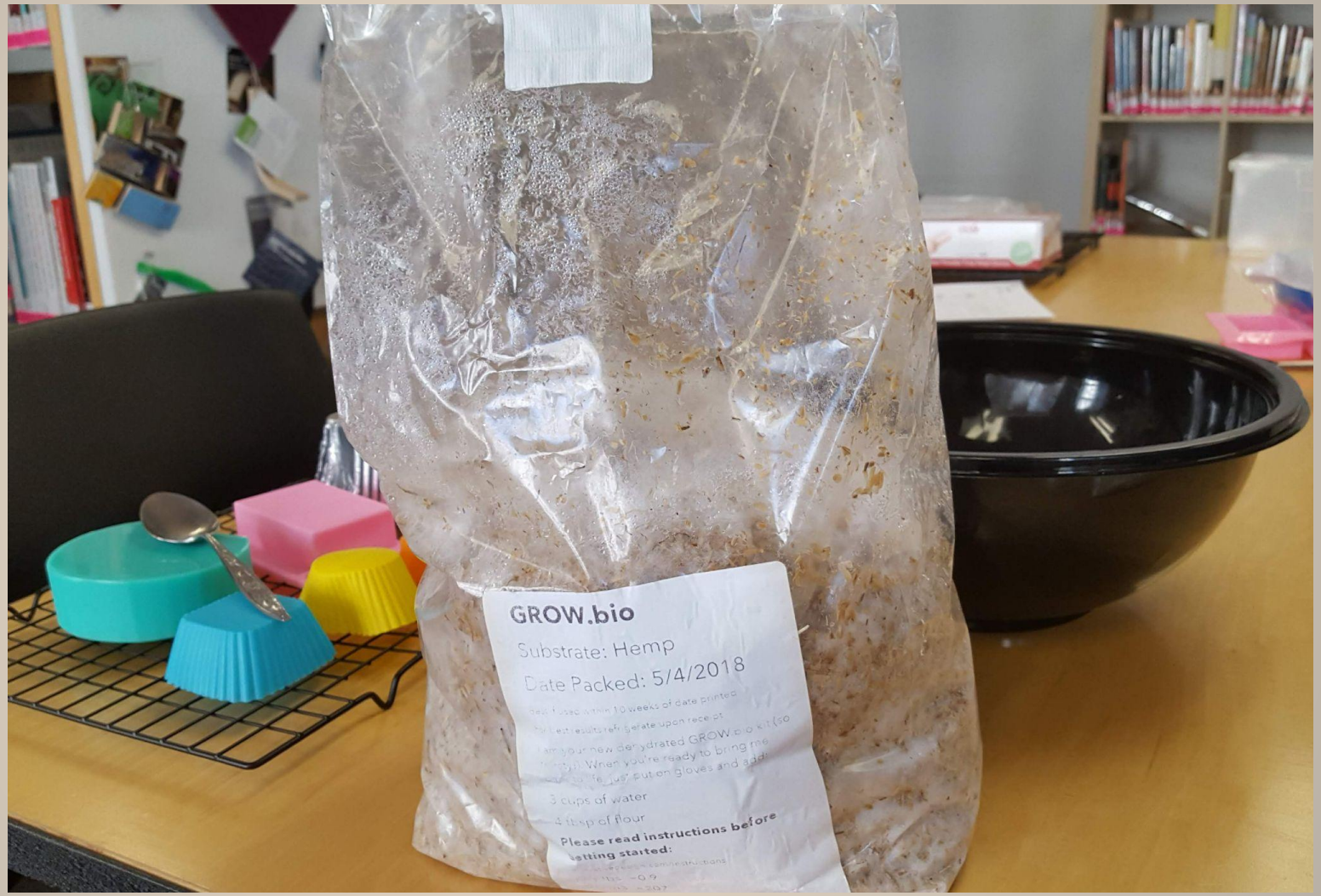
NOVEMBER 18TH

AT

10 AM

UNTIL SUPPLIES RUN OUT!

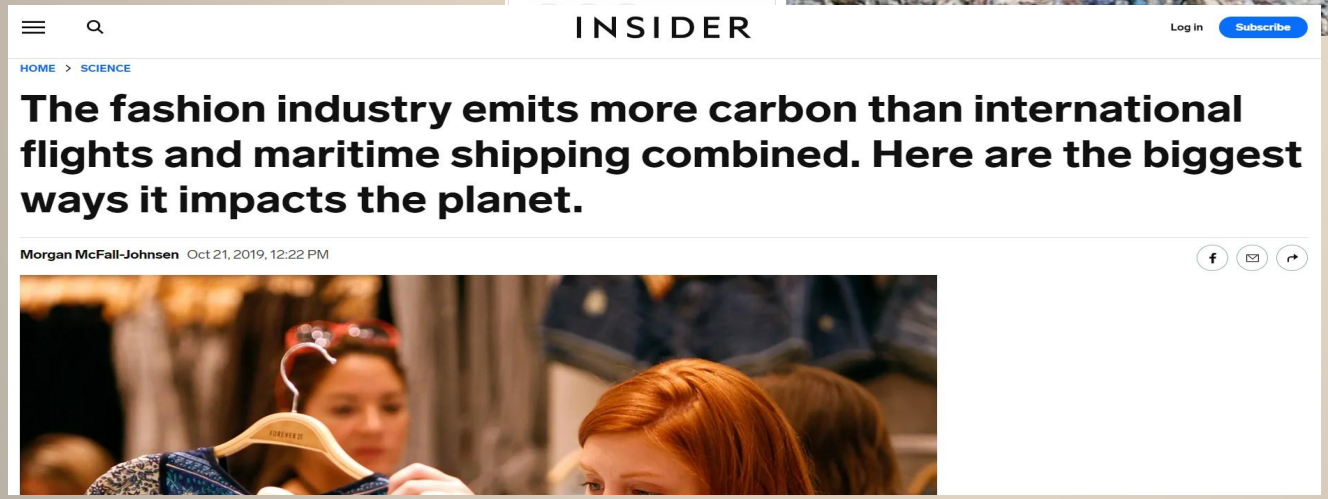
Let's Get to Work!



Fashion is the 2nd Most Polluting Industry (behind oil and gas)



https://www.theguardian.com/fashion/2020/apr/07/fast-fashion-speeding-toward-environmental-disaster-report-warns

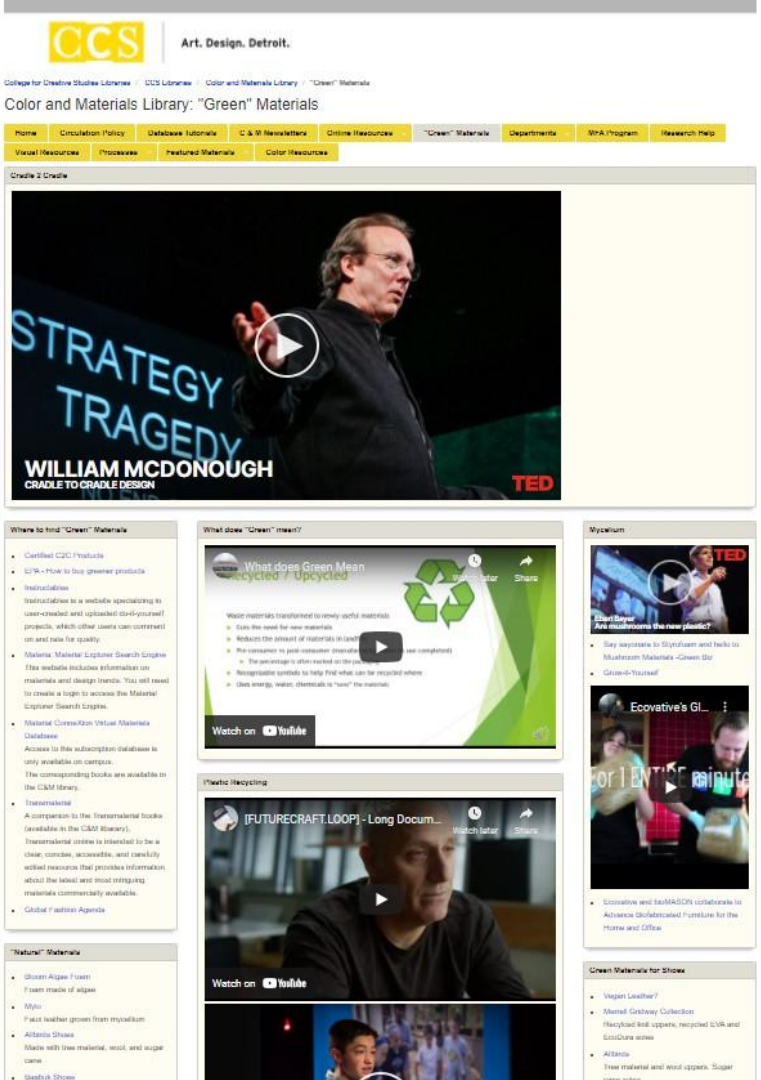


https://www.businessinsider.com/fast-fashion-environmental-impact-pollution-emissions-waste-water-2019-10


plant-based
natural
organic
bioplastic
biodegradable
post-consumer
green
life-cycle
rapidly-renewable
certified
sustainable
recyclable
recycled
renewable
waste-to-food
compostable

Color and Materials Library: “Green” Materials Webpage

(currently offline for edits)



References

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- "Recycling Symbols Explained." *Recyclenow*, 2018. https://www.recyclenow.com/recycling-knowledge/packaging-symbols-explained.
- "Sustainability". *United States Environmental Protection Agency*, 18 October, 2016, https://www.epa.gov/sustainability.

What does "Green" Mean?

Cradle-to-cradle

- William McDonough: "How do we love all children, of all species, for all time?"
- The idea behind C2C is to produce no waste to not deplete resources. Materials are viewed as nutrients which should move in a continuous cycle through the system without being degraded.
- TM of McDonough Braungart Design Chemistry.
  - Product certification is through independent non-profit called Cradle-to-Cradle Products Innovation Institute
- Talks by McDonough:
  - https://www.ted.com/talks/william_mcdonough_on_cradle_to_cradle_design?language=en
  - https://www.thehenryford.org/explore/stories-of-innovation/visionaries/william-mcdonough/#gallery-video=EwZTi1MTpLfkGea6l7Zj1vF2_tQcDl8v (btw: good one by Alfred Taubman here too)

Introduction to Environmental Certifications

Cradle to Cradle

Cradle-to-cradle

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LEED

LEED goals in MR

- Life-cycle Assessment: Helps to compare apples to oranges by evaluating the effects of using a product from its harvesting through the end of its useful life. (C2C)
- Waste Reduction: The EPA developed a list of 4 ways to reduce solid waste from construction and demolition, in order from best to the minimum expectation they are:
  1. Source Reduction
  2. Reuse
  3. Recycle
  4. Waste-to-energy
- The exact ways in which these can be accomplished and how many points can be earned are found here: http://www.usgbc.org/credits/new-construction/v4

Mycelium in All Shapes and Sizes





https://www.ccscmdmateriallab.com/projects/project-one-emffy

Stylus “New Talent” Trend Report



Folasade Okunribido



Folasade Okunribido

- **Local & Natural:** A conscious approach to colour sees designers exploring local and lower-impact resources. British designer Hannah Elisabeth Jones has compiled a comprehensive natural dye database of colours from locally foraged plants and weeds. She tracks seasonal changes and maps colours with specific locations around her home in North Wales.

  A team of students at CCS in Detroit is investigating mushrooms as a replacement for synthetic dyes. Their current findings suggest superior colour fastness and vibrancy to other natural methods.

New_Talent_2020_Colour__Materials_Showcase_scr.pdf



Mycelium Flower Pots at ICFF




GROW.bio Mycelium Material
COLOR AND MATERIALS LIBRARY
GROW.bio Mycelium Material
COLOR AND MATERIALS LIBRARY
GROW.bio Mycelium Material
COLOR AND MATERIALS LIBRARY





Mycelium Foam



https://materialorder.org/collection/materials/material/b6fd93f4-e756-4ffd-a387



Amy Seipke

Amy.Pell@gmail.com

https://libguides.collegeforcreativestudies.edu/matcoll/natfib