

# Materials in Context

## Mapping opportunities of “waste” in Poblenou

Sessions: 3rd & 10th February from 10-13th

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Name of members of the group (2/3 persons): Philippa Formosa, Borbála Moravcsik

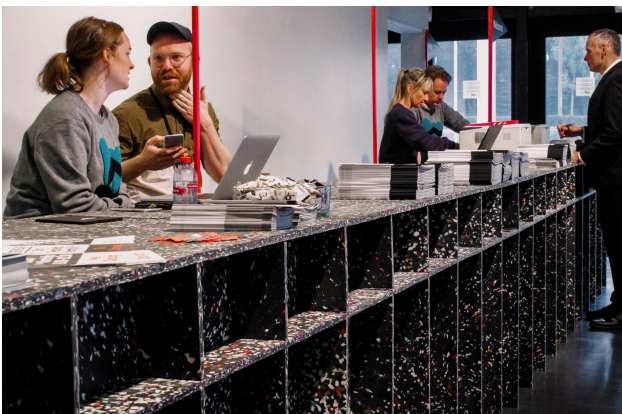
1 What are your material research and experimentation interests?

Recycled materials - firstly plastic and Hybrid living materials - firstly bacterial cellulose

2 Select 5 images of projects related to your material experimentation interest.



#Reference 1. HDPE is a variation of polyethylene, the most common type of plastic in use today. While its low-density equivalent LDPE is used to make plastic bags, HDPE is sturdier and more rigid, lending itself to everything from milk jugs to packaging for cleaning products and toiletries.



#Reference 2. Plasticiet was used to create the eight-metre-long entrance desk for Biennale Interieur 2018



CHEMICAL SIGNALS AND ENGINEERED CELLS YIELD SPATIALLY SPECIFIC PIGMENT PRODUCTION

#Reference 3. Neri Oxman and her groups, Mediated Matter's experiment on chemical signals and engineered cells yield spatially specific pigment production.



#Reference 4. The Silk Pavilion - A structure designed by the group of Mediated Matter and built of silk worms - an additive way of creating materials, by using nature's capability and already existing natural systems with and aid we create for them.



#Reference 5. Guatemalan designer Elena Amato has created sheets of bacterial cellulose with paper-like qualities as a sustainable alternative to the plastic packaging used in personal care products. The bacterial cellulose sheets were developed using a mixture of water and a bacteria and yeast (scoby) culture, which is blended together before being spread out on a flat, smooth surface and left to dry.

3 Choose an area of interest in the Poblenou neighbourhood from which to begin your research into material opportunities. Personal Tip: Look at the type of waste or surplus materials you are looking for and the type of businesses in the area.



Map of Poblenou.

Construction Sites as Poblenou is being renovated there is a lot of construction sites that leave lots of waste wandering around.

4. Enter and talk to those businesses where you think there may be material opportunities of interest to you. Personal Tip: Introduce yourself briefly and comment on the motivation of your project and what you would like to experiment with their waste. The aim is to establish a bond of trust and collaboration and to keep them informed in case the results are promising.

#local business 1 - #Waste 1:

#Poblenou schools (Escola Poblenou, Escola La Mar Bella)

#Plastics they are collecting in recycling bins

#local business 2 - #Waste 2:

#Coffee shops - Nomad, Itnig, Espai Joliou

#local business 3 - #Waste 3:

DIYBioBcn - Bio lab

#local business 4 - #Waste 4:

#Waste from food packages imported, waste that the consumers produce in restaurants in the area.

#local business 5 - #Waste 5:

#IAAC - bio and MDEF courses

#Bacterias and spirulina after experimentation

#local business 6 - #Waste 6:

We could go to construction sites to see what waste is left.

5. Submit 3 to 6 material opportunities (waste and surplus) and fill in the following form with your project information by 3/2/2022 at 10am. We will need the information of the project and the material opportunities to be able to carry out the session in class.

Since my partner and I couldn't make it to class as of yet due to covid problems we would like to tell you a bit more about our topic of interest. We both have a strong belief. We believe that the first and most important before step in a material cycle is that we would design new materials, to use by the already existing ones discarded. If not that we see a great potential in additive design, but under the sake of its natural way, therefore instead of us creating we will provide a platform to nature to create it.

If you wish, you can find more information on the subject in the following

links: <https://laurafreixas.gitlab.io/laura.freixas/-/organicmatters.html>

<https://fablabbcn.org/projects/siscode-remix-el-barrio>