

Wetwood Housing Inc.

Executive summary title: Introduction of a new construction material (wet wood) and its benefits.

Wetwood: a type of construction material that can be fashioned into bricks, concrete, glass, and steel. Wetwood is a biomaterial. It is a material that can be engineered with certain properties. We can define its properties (like fire resistance) and synthesize a biotechnological process to make that material.

Let's take an example. We want to build houses that don't burn down but brickmaking and bricklaying is a complex manual process and modern construction methods are generally built for modern architecture (apartment complexes, skyscrapers). Residential single-family housing still needs a lot of human labor, and a lot cheaper machinery comparatively. It mainly uses wood. We would like to make a wood that does not burn. We can simply make alive wood. Wood that, instead of being dead, is alive. Then it can maintain moisture and not catch on fire. It is wetwood.

By making wetwood alive, we can engineer wetwood's properties to be whatever we want. It will be a metamaterial.

We can engineer wetwood to make houses on the moon by simply doing the process of directed evolution on tree bark cells in a moonlike environment and selecting what survives best.

We can engineer wetwood to adapt to different climates, so houses made for arid climates will have different material properties than houses made for Antarctica aboveground land.

And yes, since I mention Antarctica Aboveground, I must also mention the opposite. Underground Antarctica. Night City. Because the deeper we dig, the hotter it gets; we make use of Earth's natural heat to create an environment that's hospitable to humans. We burrow deep. We make Night City underground. Literally. Antarctica Aboveground is the normal place to be. Antarctica Underground is a settler city of the 21<sup>st</sup> century. It is techoriented. It is grunge. It is cyberpunk. It powered by biotech. It is a city of the future. I allude to what Walt Disney had in mind with EPCOT, but with the latest and greatest tech of our time. Night City is a unique environmental state. Wetwood houses for this city will be different. But I digress.

I believe wetwood is wood of the 21<sup>st</sup> century. Instead of using an existing biomaterial (tree trunks), we engineer a new biomaterial and produce it extensively with Ginkgo bioworks.

Sidenote: wetwood may also be achieved with quantum dots