

2022 July 30 (Saturday)

Dinacon + DreamSpace Updates

DREAMBOAT FLOATS ON WATER

After three intense weeks of sourcing materials, designing, building, and testing, the team building DreamSpace Academy's finally got to test the new lab! And it floats! We will have more training, safety guidelines, sensors, displays, and tweaks coming, but for now, it's just incredible to have a totally functioning floating space of our own!



Thank you for all your support. Shanjeevan, Abhinayan, Anamigan, Kiritharan, Dharshan, Abidharani, Anushanth, Jayanthan, Jathujan, Jerushan, Jaanujan, Ratheesh, and Dinosaurs.

DreamBoat solar-powered internet and sensor server: Work In Progress



A tiny WiFi router (Nexx WT3020) reflashed with OpenWRT, connected to the internet via a local Mobilink MF700 4G LTE USB dongle with an SLT Mobitel SIM card configured with a wire guard tunnel to a VPS out in the world for remote access.

The router and 4G are all configured, and solar/battery hardware has been acquired. Two semi-flexible 10 W solar panels, one small 12 V 7 Ah lead acid battery, a little MPPT solar charge controller, and a USB-C cigarette plug car adapter to power the router and dongle.

*(Photo showing a naked wifi router on the left and a 4G dongle on the right.
It is powered by USB.)*



The HyperSpace2Space link is almost active!

The intercontinental video tunnel through cyberspace that will link DreamSpace to other hackerspaces is nearly complete! We did a test run during the sudo room Tuesday hacknight and are nearly done making this a permanent wall-mounted (or wall-hanging) system. It uses a slightly customized jitsi to sleep the screen when not in use and wakes it up whenever someone joins, so folks are alerted. The webcam can be rotated and tilted to view different parts of the space and can be pointed to the floor when not in use, powered by a Raspberry Pi 4 and locally sourced monitor and sound system.



(Thanks to Tharshan for all the electrical work and Andy for mounting assistance)



Coconut Robot Heart and Robot Jam

Leonie has been creating a super cute CocoBot based on an animatronic heart. Based on some materials that Mónica brought for the soft robotics with natural materials workshop, mixed with Andy's proposal to create a CocoBot, the final device is a coconut robot heart that merges with nature and seems alive! Also, there's been robot jamming all week at the new Cabana Lab and the DreamSpace Collective. It is so lovely to be sharing electronics experiments with so many people!



New mycelium creations are soon to be unveiled!



MyceliumMask



Paper Planning

Over the past week and a half, reishi colonized grains and oyster implanted agar have quietly established themselves in unique forms in the Bio Lab. Designed by Mang and Tegan and stewarded into reality with Cris and Pramo's expertise in microfabrication, the new creations include a custom speaker cover, a malleable Myco-material, and a wearable mycelium mask. The experiments included trialing a new substrate using coconut bark fiber harvested from the DreamSpace Hive's trees. The resulting design components aim to be featured in Mang and Tegan's upcoming Open Day Datapod installation.



Speaker

Data pods return with local materials!



The Datapod enviro-sonifiers, first debuted at Dinacon 2019 in Panama, have arrived in Sri Lanka! Mang and Tegan are updating them with various local materials, including recycled plastic from Andy's pullstruder, embellished natural objects, and local hand-loomed fabric. Kathu helped laser cut the recycled plastic into new body parts for the custom circuit boards designed by Seamus (sorry you couldn't make it!) Look for an installation and performance of the Data pods at the Open Day, where they will turn environmental data into sound!

Datapod with Jathu



Datapod Coconut



Datapod Lasercut



Datapod Fabric

The Monster of Dinacon Lives!

After a few iterations, Sid has decided on the final look of the creature that will terrorize the characters in the narrative game they are still working on. With the help of Andy's head for making the initial paper mache head shape, Sid spent the last week collecting plants, coral, and exciting bits and pieces from around Batticaloa to adorn and build the monster.



Coconut husk burner



Trying to do something useful with this agro-waste product has been challenging! It turns out that burning this stuff without smoke is more complex than expected. This material is tricky, and much insight was gained while fun was had playing with fire!

Pizza oven at DreamSpace Hive



The oven's construction is complete except for the inner clay lining, which needs to be redone. It's been a fun ride with many involved, and now the oven is turned over to DreamSpace, who will witness the first firing after the clay has been plastered on.

Fighouse

After difficulty finding a post-hole digger, we settled for a spade. The lashed base structure was erected by Ana, Dashan, Kiri, and Felix using bamboo provided by Riviera's Thava. Strangler fig cuttings and seeds have been cultivated in the Bio Lab with the help of Cris and Subair. They will be planted in holes drilled into the structure.

Over months and years, we hope for aerial roots to grow along the scaffold and fill the gaps. A living

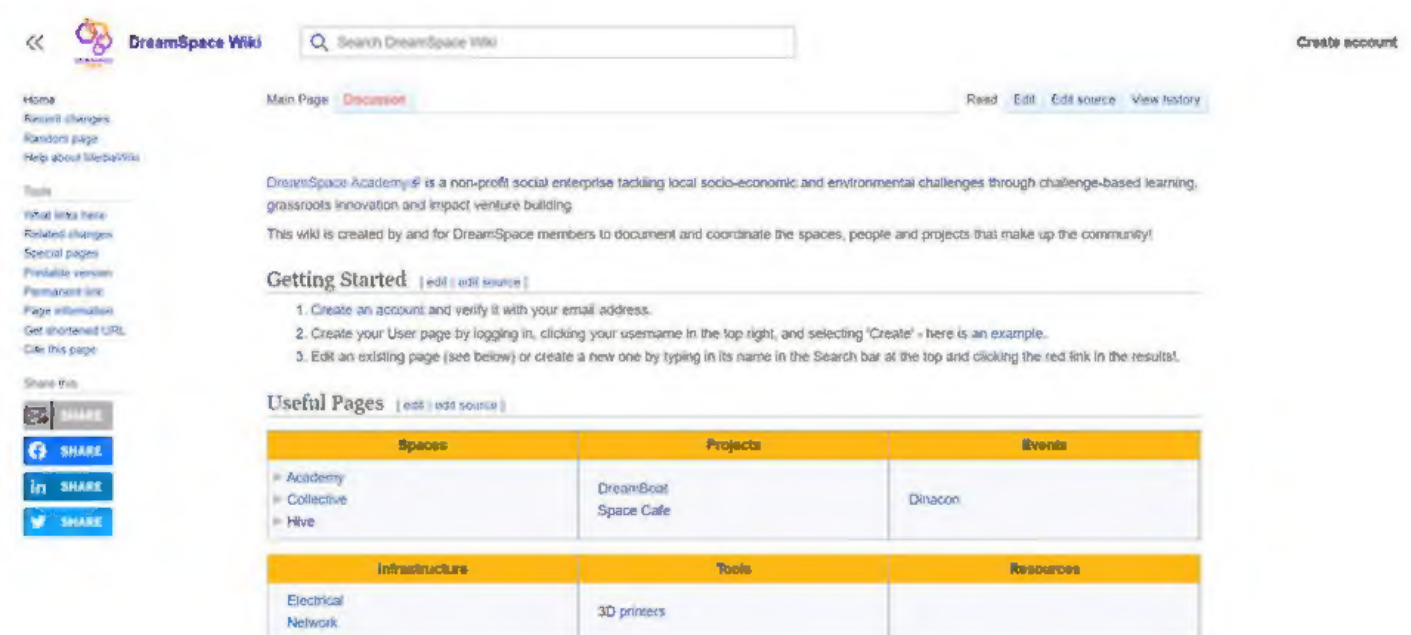


building emerges, inspired by the living root bridges in Meghalaya. According to the principles of Baubotanik, the building can be used from day one. It provides shelter to sit inside. Measurements such as the aerial root growth rate are collected regularly. With the knowledge gained from this simple tetrahedral structure, more sophisticated structures such as geodesic domes could be set up in the future. Why not turn DreamSpace into a hub for tropical Baubotanik? The weather is perfect (for the figs), there are many research opportunities, and the crew is highly skilled.



DreamSpace Wiki: Building a Collaborative knowledgebase

Shared documentation ensures that knowledge lives on and that projects and ideas can be continuously iterated and improved upon. , Using the open source software that powers Wikipedia and Mediawiki, anyone can contribute to this living knowledgebase for the DreamSpace community, building a collective information commons and publishing project ideas to inspire others worldwide. All involved in building projects and infrastructure for DreamSpace are invited to co-create living public documentation at <https://dreamspace.miraheze.org>



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DreamSpace Academy® is a non-profit social enterprise tackling local socio-economic and environmental challenges through challenge-based learning, grassroots innovation and impact venture building.

This wiki is created by and for DreamSpace members to document and coordinate the spaces, people and projects that make up the community!

Getting Started

[edit](#) [edit source](#)

1. Create an account and verify it with your email address.
2. Create your User page by logging in, clicking your username in the top right, and selecting 'Create' - here is an example.
3. Edit an existing page (see below) or create a new one by typing in its name in the Search bar at the top and clicking the red link in the result.

Useful Pages

[edit](#) [edit source](#)

Spaces	Projects	Events
- Academy - Collective - Hive	DreamBoat Space Cafe	Dinacon
Infrastructure	Tools	Resources
Electrical Network	3D printers	

<https://linktr.ee/thaalamriddimreapers>

Thaalam Riddim Reapers have 'open sourced' our sample bank. Follow our link tree to download and remix samples, and loops made from the Hive surrounds during our three-day workshop: Some fresh riddims are in our shared folders, notably Dinoj's 'Metal Walk.' If you have something to share, please upload it! Don't forget that there is now a range of MIDI controllers and audio recorders in the Music Lab. Please make use of them and keep sharing your tracks!



THANK YOU VERY MUCH WE HOPE TO SEE YOU ALL SOON

On behalf of every Dinasaurs that came to Dinacon this year, we are very thankful for how DreamSpace has welcomed, cared for, worked with, hacked, and become friends with us. We couldn't have asked for a better group of intelligent, talented, and engaged people to work with.

We are incredibly thankful to Aravinth for reaching out and starting this partnership. Kishoth for keeping things moving, Rathees for his tireless logistics work, Suhail and Subair for waking up at all hours to meet Dinasaurs at the airport, and everyone who met Dinasaurs at the bus stop at 3 AM. We can only hope that it will continue to grow and that Dinasaurs and Dream Bees alike will keep in touch and make cool things together. And we're pretty sure they will; many strong connections and bonds were formed here.

After a month in Batticaloa, we have all been so lucky to see the magic of this place. Thank you all for being so wonderful. We will see you soon!

