

Protei Workshops in Brasil

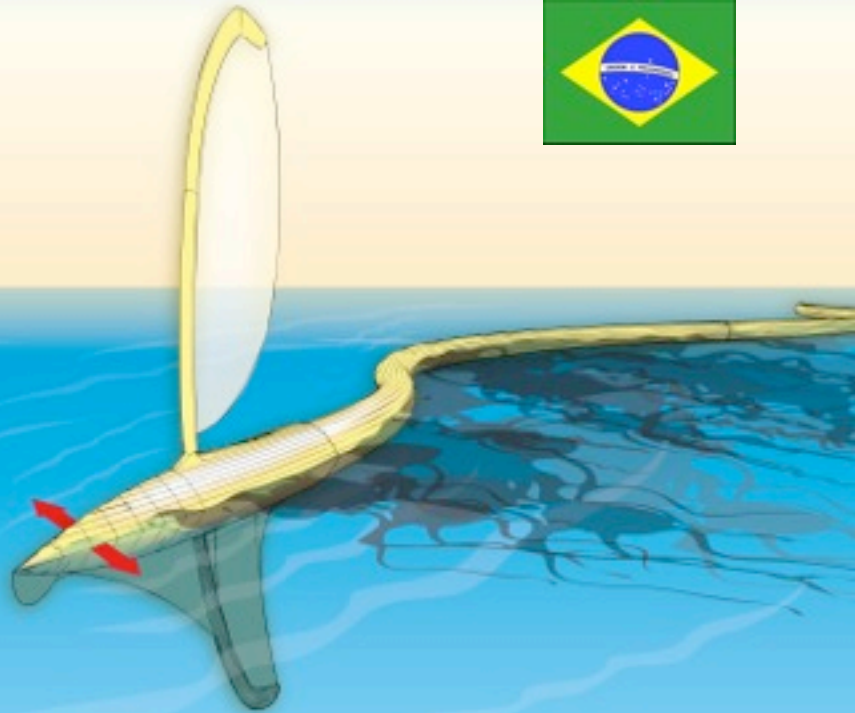
Proposal to local organizers. You!

May, June 2012



Open Hardware
Shape-Shifting
Sailing Robots
to Sense and Clean the Oceans.

Our oceans cover more than 73% of our planet surface and are under increasing stresses from oil spills, radioactivity, plastic debris, agriculture run-off, eutrophication... We need to understand our oceans better in order to preserve and sustain them. Protei is a community generated technology of a shape-shifting sailing robot that transports environmental sensors. The technology is based on open-source-hardware, which means that everyone can develop, use and modify Protei, by constructing prototypes and testing them in the water. We want to involve your community with hands-on workshops to raise awareness of how everyone can get involved with technology to understand and better protect our oceans.



Protei.org

1

Open Hardware Workshop

By Gabriella Levine, USA
Protei core team.



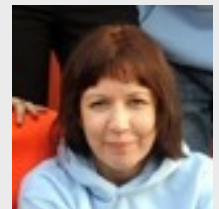
Robotic boat building workshop using Arduino micro-controller. Explore concepts of Open Hardware, construct a simple robotic boat, learn to wire and write Arduino code.



2

Open Source Software Workshop

By Kasia Molga, Poland, UK
Protei core team.



Sensor visualization tools using software and introduction to "oil compass". Learning the general concept of data extraction and visualization, using remote sensing and computer programming. Google maps mashup / Pachube.com.



Prototype



Code



Sail



Collect data



Share

Empower your community with Open Technologies for the Environment !

Protei Workshops in Brasil



Protei Mini-workshops Brazil, May-June 2012

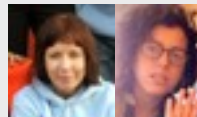
- **Porto Alegre**, Rio Grande do Sul | May 23 Wednesday
- **Sao Paulo**, São Paulo | May 27 Saturday
- **Ubatuba**, São Paulo | May 30 Wednesday
- **Rio de Janeiro** | June 2 Saturday
- **Belo Horizonte**, Minas Gerais | June 6 Wednesday
- **Vitoria**, Espírito Santo | June 9 Saturday
- **Salvador**, Bahia | June 13 Wednesday
- **Santarém**, Para | June 16 Saturday

Dates and places are still to be determined with you, we're flexible.

- **Participants** : 5 to 20 people of any age
- **Duration** : 1 or 2 days Hackathon.
- **Audience** : We can customize the workshop for a general young or senior audience to a highly specialized audience of PhD in science or engineering.
- **Cost** : ~1000 BRL (~500USD) for a great hands-on workshop. That cost can be covered by a sponsor, or shared between participants.

What we bring

- ★ 2 World-class Art & Science instructors
- ★ Electronic kits & tools
- ★ Protei documentation. Print, Banners, Posters to let your community know about the workshop.
- ★ All administrative papers.



What you bring

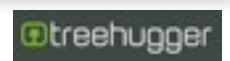
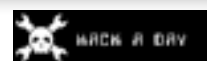
- ★ A date you choose
- ★ 5 to 20 participants
- ★ A room for the workshop
- ★ Some floating materials (can be recycled materials)
- ★ Translation, if required
- ★ 1000 BRL (~500 USD) to split between participants, sponsors.



Together we



- ★ Do an amazing hands-on workshop building machines and software that can sense the ocean and share it real-time.
- ★ Gather your community around positive social, environmental and technological values.
- ★ Raise awareness of how open technologies can be used to study and protect the environment. Be part of a global movement of makers involved in citizen science. There may be local issues you want Protei to help address.
- ★ Bring international attention to your local community by participating a high profile project. Protei is covered by international, environmental, technology and social media : we want to share that exposure with your community.



Please get in touch to arrange the workshop details : contact@protei.org