

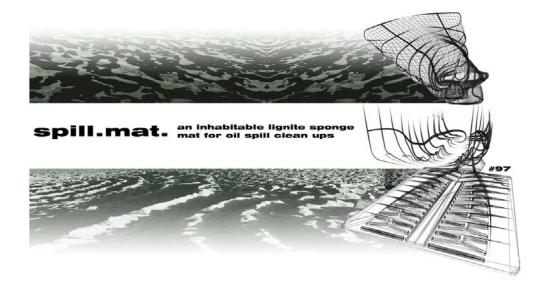
wayne jenski

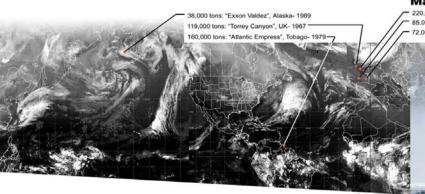
Water born oil spills frequently devastate environments world wide; many efforts are made to contain the disaster, but inevitably the poison spreads to beaches where efforts to collect it are limited. This project is sited in the area of greatest impact: between high and low tide. Spills proliferate off the coasts of Alaska which presents accessibility problems during clean up efforts; for this reason its

beaches were selected as the environment.

The Spill Mat is a composition of layers, forming a fabric of 36'x36'. The strata in contact with the skin of the beach are a formation of lignite resin sponge and dyneon that forms a vascular network for collecting oil and storing it in a sack-like reservoir. Anchored at the corner, the fabric is allowed to float and pivot at high tide to cover and clean adjacent areas. Working as a sort of colony, a few dozen mats could clean a beach in tandem during the tide cycles.

At high tide, the fabric is exposed to 34-44 degree Fahrenheit water which activates a nitinol mesh within its layers to form it into a floating environment for the workers who would otherwise have to set up a temporary camp or be air lifted back and forth everyday. The Spill Mat is set back down at low tide, where it flattens and begins to collect the newly deposited oil from the tide.





Major Tanker Spills

220,000 tons: "Amoco Cadiz", Brittany- 1978
85,000 tons: "Braer", Shetland Isles- 1993
72,000 tons: "Sea Empress"- 1996

1998

More than 300 oil spills over 10,000 gallons occur per year.

The goal is to remove and reclaim the spilled oil without adding to the problem. Oil is a necessary fuel of technology; this is a proposal to utilize technology to repair the damages.



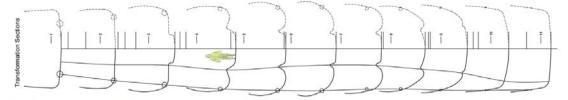


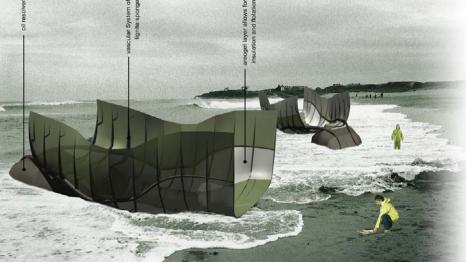


Environment: Oil Spilled Beach











The 35 degree water of the Pacific activates the nitinol mesh layer while the tide is rising, causing it to begin to morph into a shelter for the volunteers.

Mid Tide

