
A Shapers
Tale

California

Ecuador

Anno

2005

The surfer

Estefan surfs since the age of 19 years.

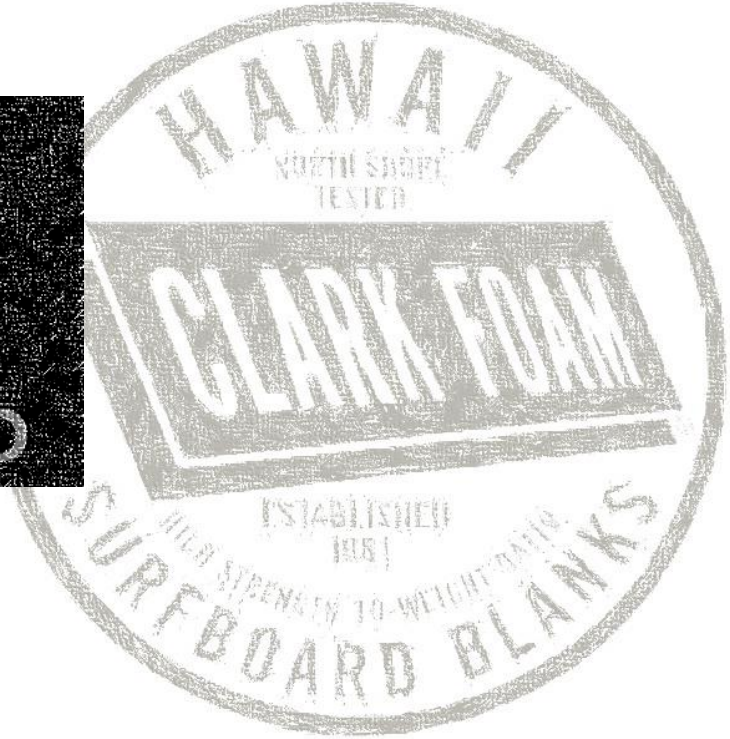
His brother once said:
»You figure out every tiny ding on your surfboard and then **you repair it so perfectly**«

Since he was a child, he had an awareness for **minority groups** .

Sustainability, and Faireness came more and more to his conciousness during the years.


HELP

Collapse of Surfboard-industy



"For decades "**Clark Foam**" was nearly the **only provider of blanks**.

Four Reasons Why MONOPOLIES Are Bad for an Economy

Price-fixing,

Low-quality products,

Lack of incentive for innovation,

Cost-push inflation.

squeeze out competitors

90% of the United States supply

60% of the world supply

of surfboard blanks.

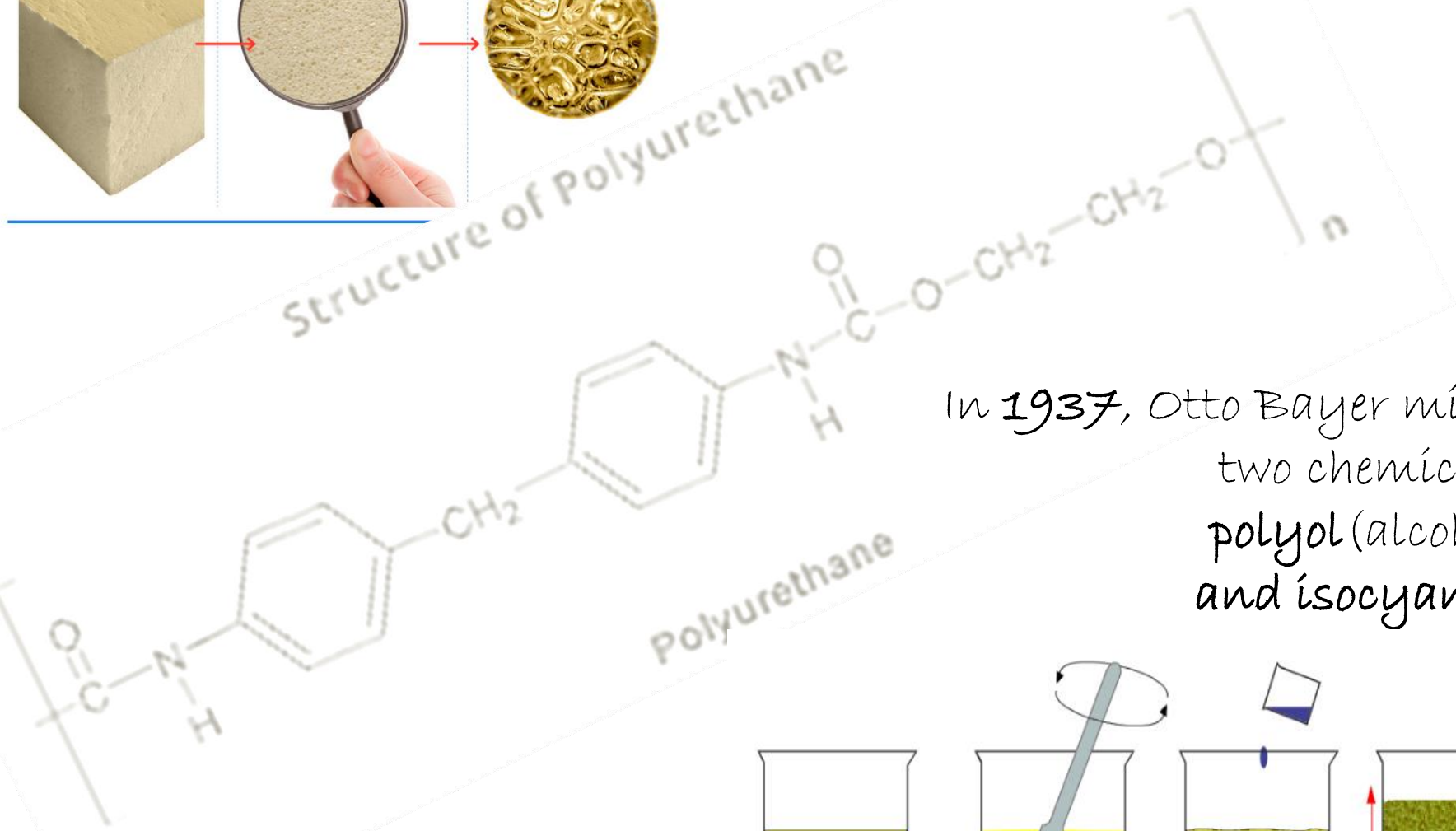

.Reliable
.Inexpensive
.Good quality
.Undercutting prices
.Stifled upstarts,
.Withholded shipments
Process and equipment were jerry-rigged affairs.
Clark blew up the surfboard industry.

Reasons for closing:

Difficulties with government-regulatory-agencies over the chemicals and equipment .

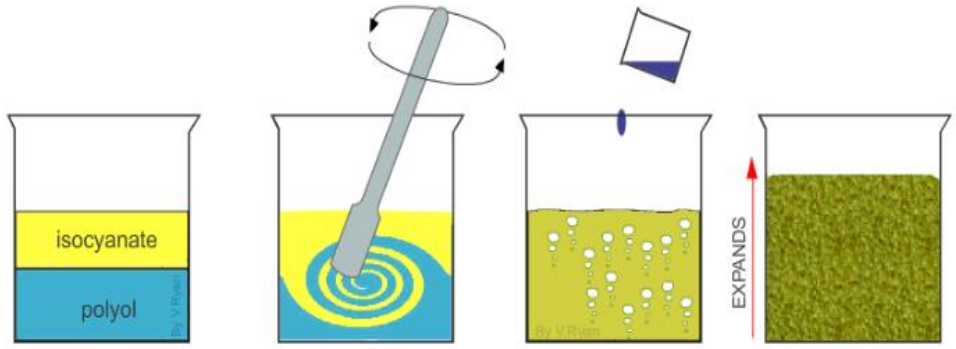
Claims against him by former employees.

Structure of Polyurethane



Polyurethane

In **1937**, Otto Bayer mixed two chemicals, **polyol** (alcohol) **and isocyanate**



polyol poured into container followed by isocyanate

polyol and isocyanate being mixed

Small amount of water added

Foam rubber the result.

In the 60's,
PU-foam
revolutionized
the surf world

Dark side of PU

Duration Problems

.Short life

.Hydroscopic tendencies

.Water absorption characteristics

Environmental Problems

Toxic fumes if burned

.Contains non-renewable fossil fuels

.Produce greenhouse gases

Health Problems

. Toxic fumes

.allergic reactions,
difficulty breathing,
loss of consciousness,
blindness.

BALSA Wood

.Outstanding »strength-to-weight« ratio

.Light & Soft timber

.Pretty high degree of buoyancy

. Fast growing

.CO2 sinks

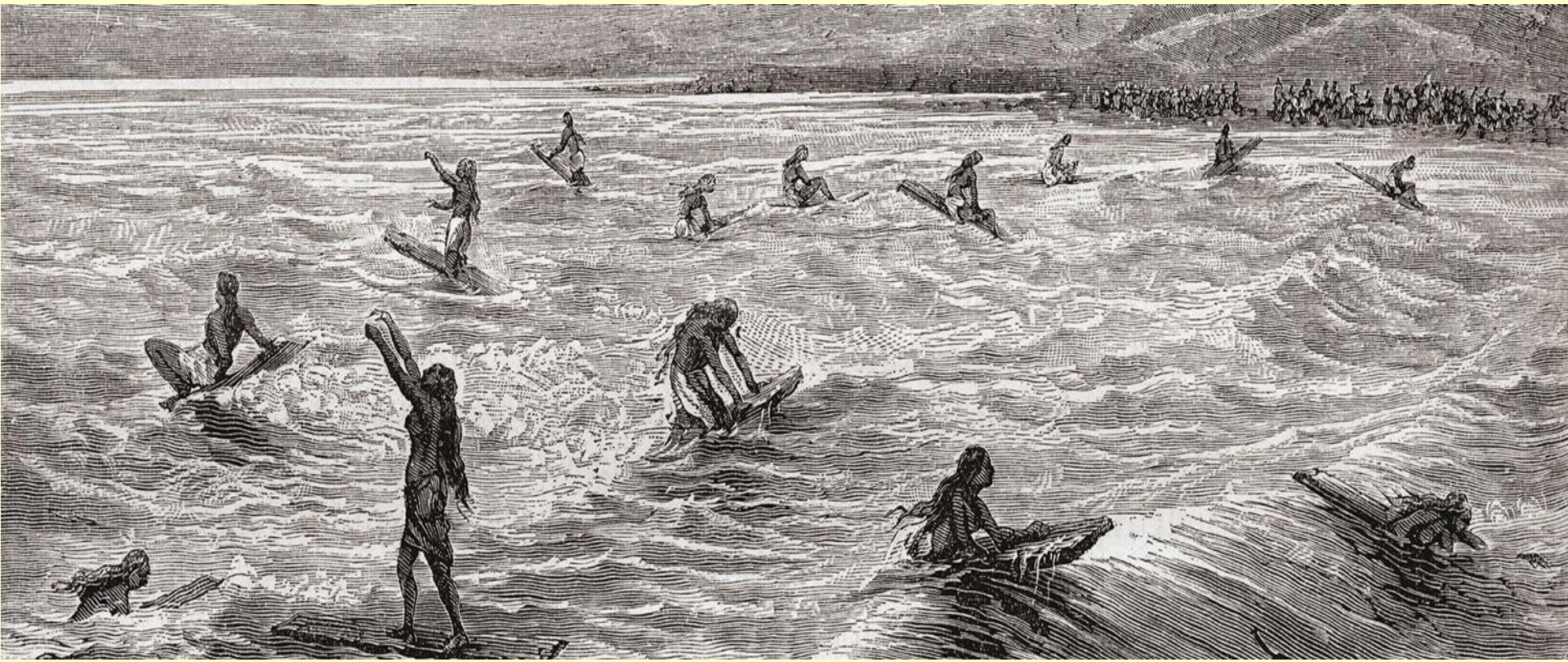
Balsa-Wood

Absorbs shock and vibration.

Easily to be cutted and shaped.

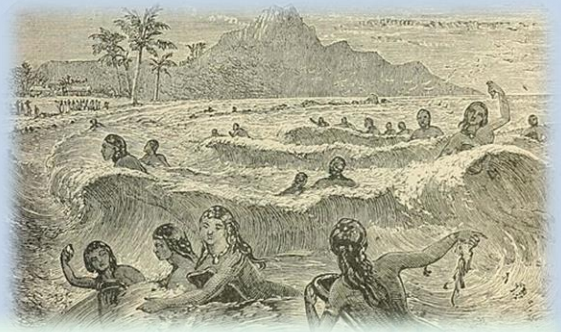
Gluable with simple hand tools.


History of
wooden
surfboards?



Traditionally
surfing has, its origin
around 3.000-1000 years BC

Surfing has its roots In the heart of Polynesianculture,In the South Pacific and Micronesia



And its practice was almost forced for the royalty.

Surf was »the sport of the kings «

Tenían 3 tipos de tablas:

SURF around the WORLD

With the **arrival of Christianity** came the **overthrow** of the **native Hawaiian culture.**

The **laws governed interactions** involving people, nature and the gods **for hundreds of years.**

The result was an **overwhelming change in social structure and lifestyle**

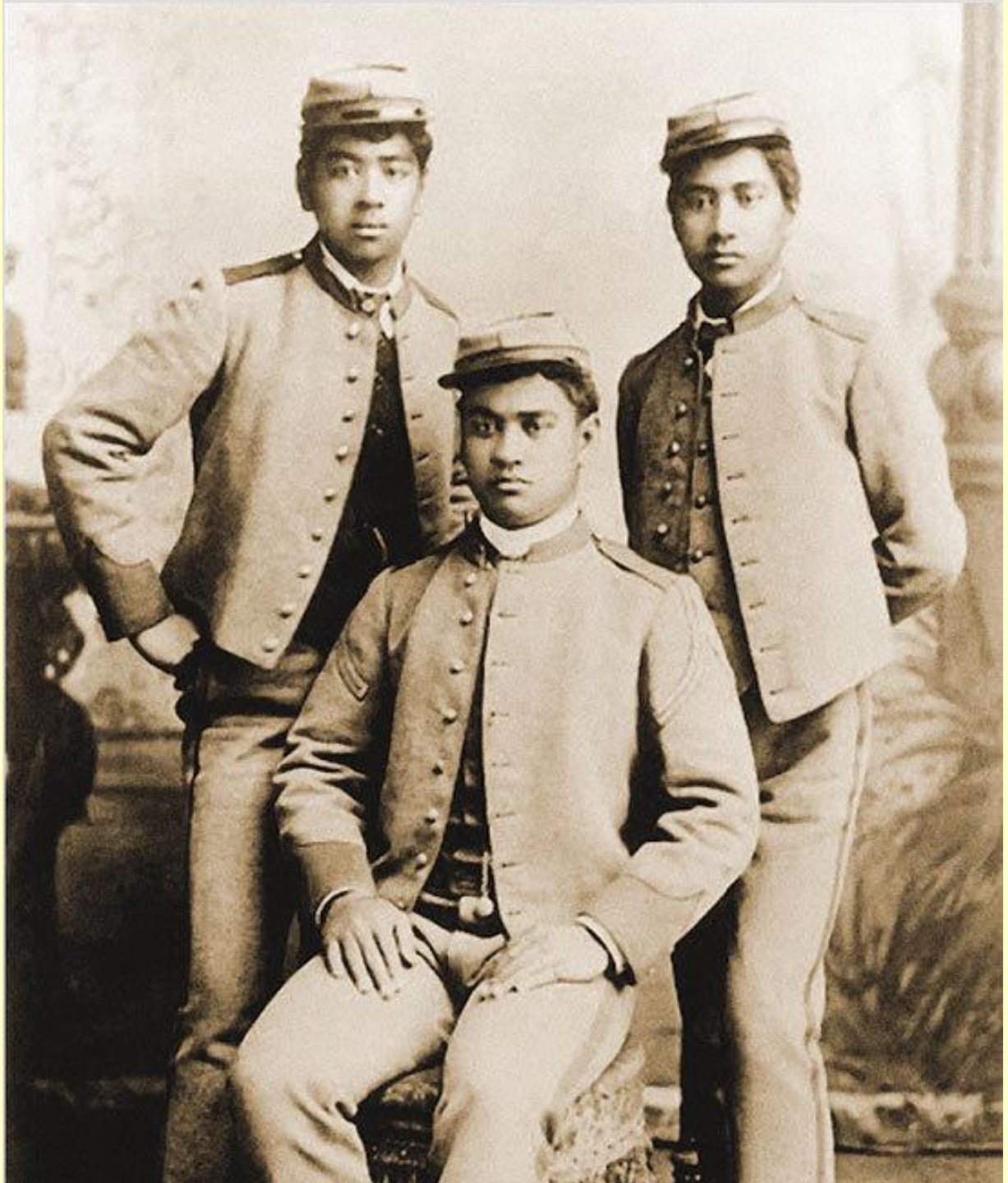
In **1778, Captain James Cook** saw **surfers at Hawaii.**

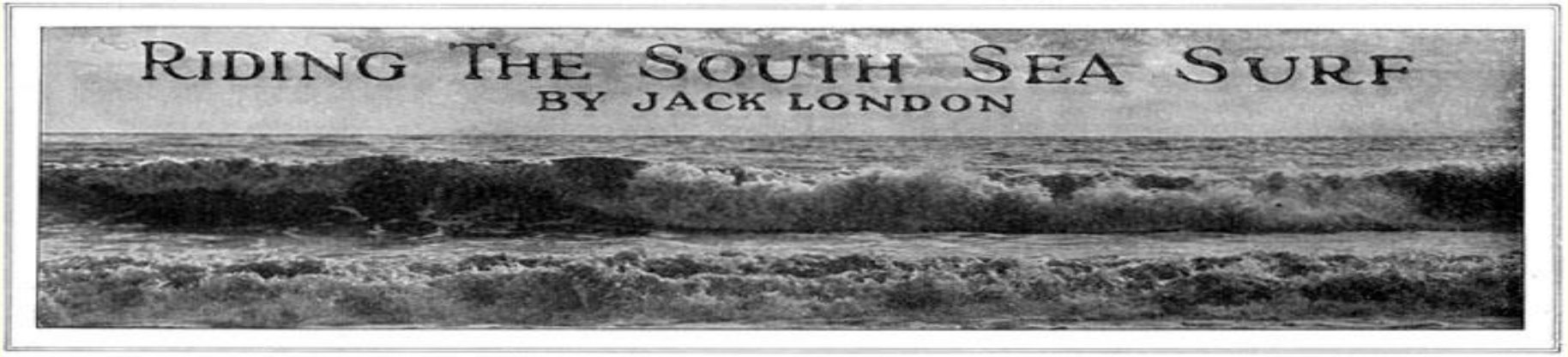
He wrote about surfing in his **travel diary.**

Summer of 1885, the hawaiian princes

Jonah, David and Edward

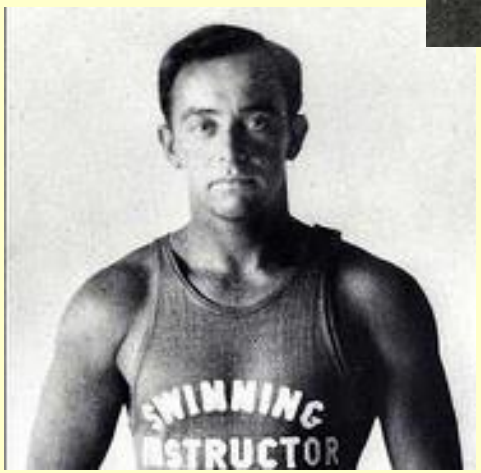
in Santa Cruz beach.





Annexation of Hawaii in 1898
Thereafter the lost tribal tradition
of surfing was revived.

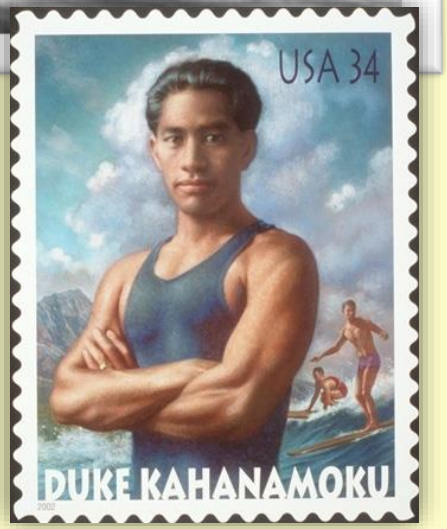
Jack London invited the Hawaiian surfer
George Frith to California in 1907.



Duke Kahanamoku

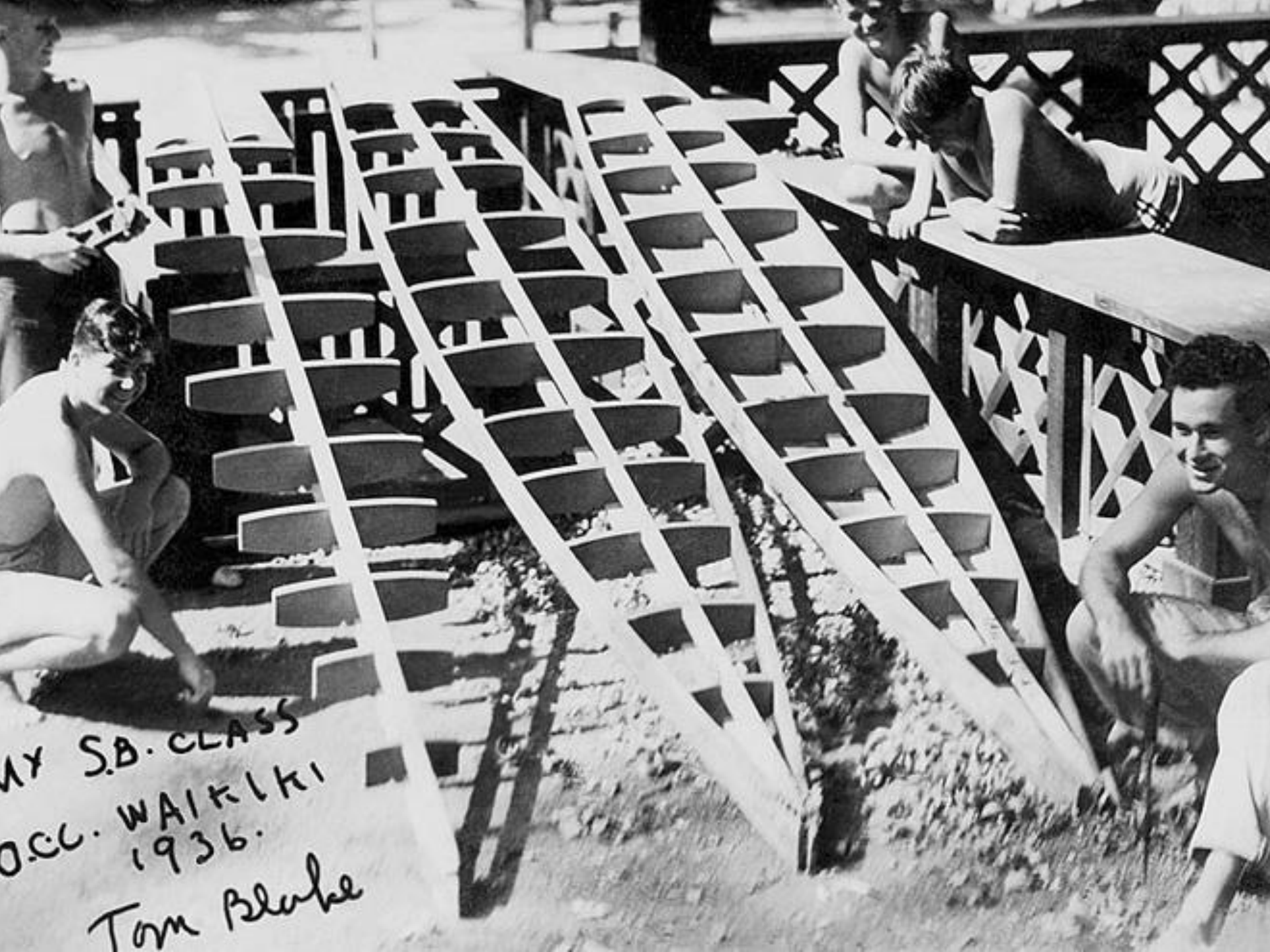
1914
Olympic swimming
champion
Duke Kahanamoku
demonstrate
Surfing In
Eastern Australia
to in front of
thousands
of spectators.

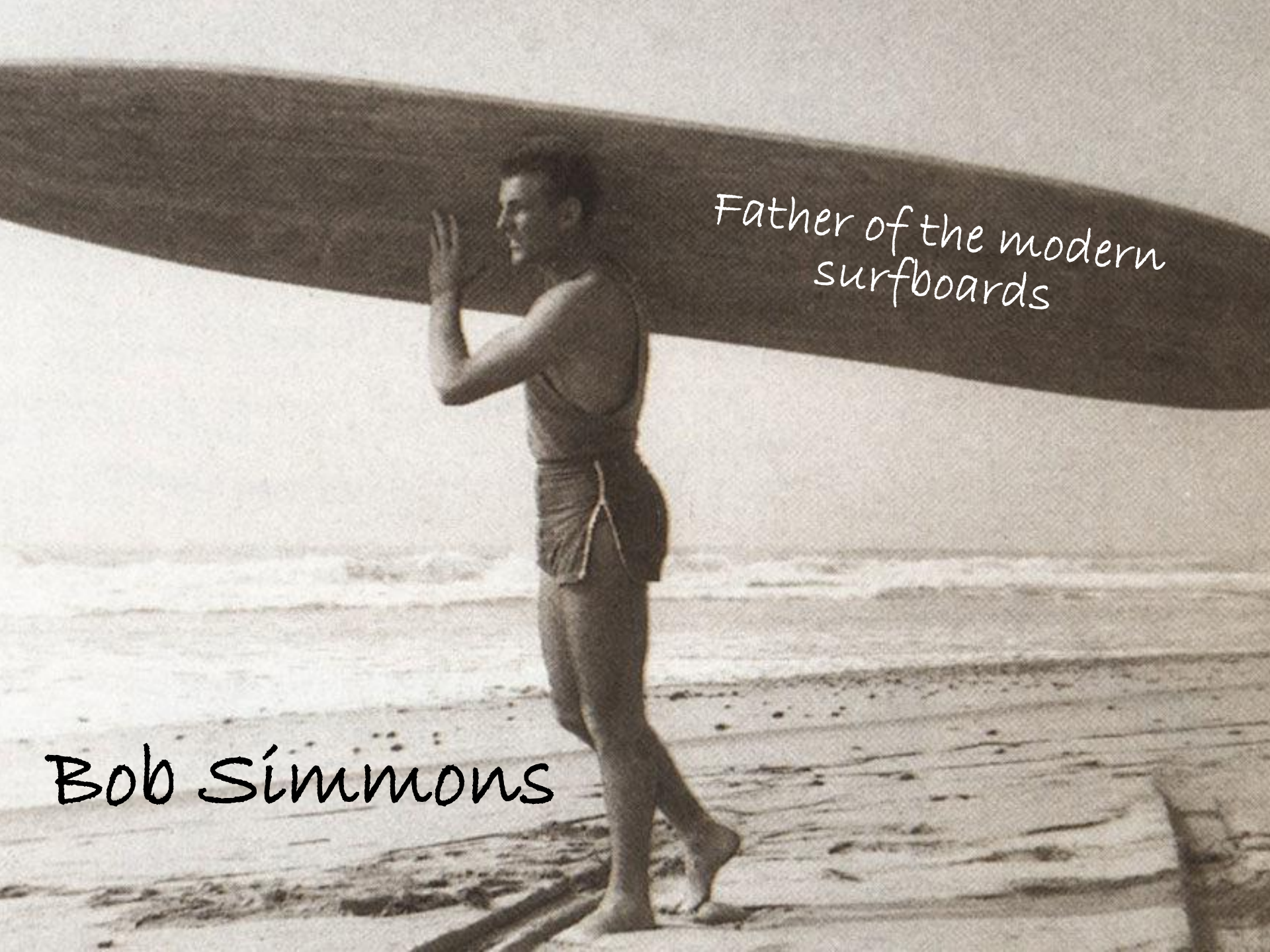
In 1915
tandem
with
Isabelle Letham



Tom Blake

Inventor of the **fin** and the **light -wood construction**


MY S.B. CLASS
O.C.C. WAIKIKI
1936.
Tom Blake


Father of the modern surfboards
Bob Simmons

Fins, Fiberglass,

and a shape

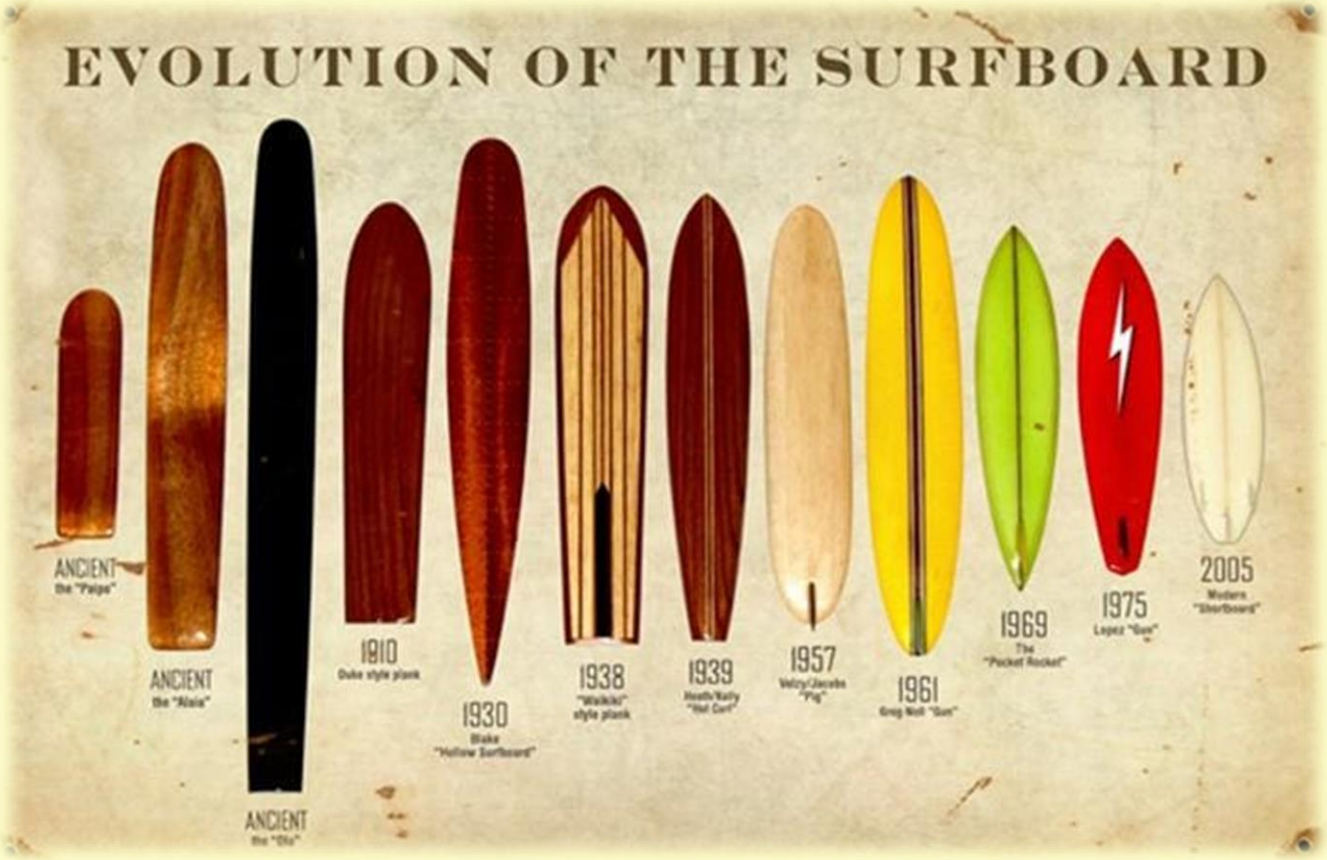
based on Boat-

building studies

evolved

surfing to

another level.

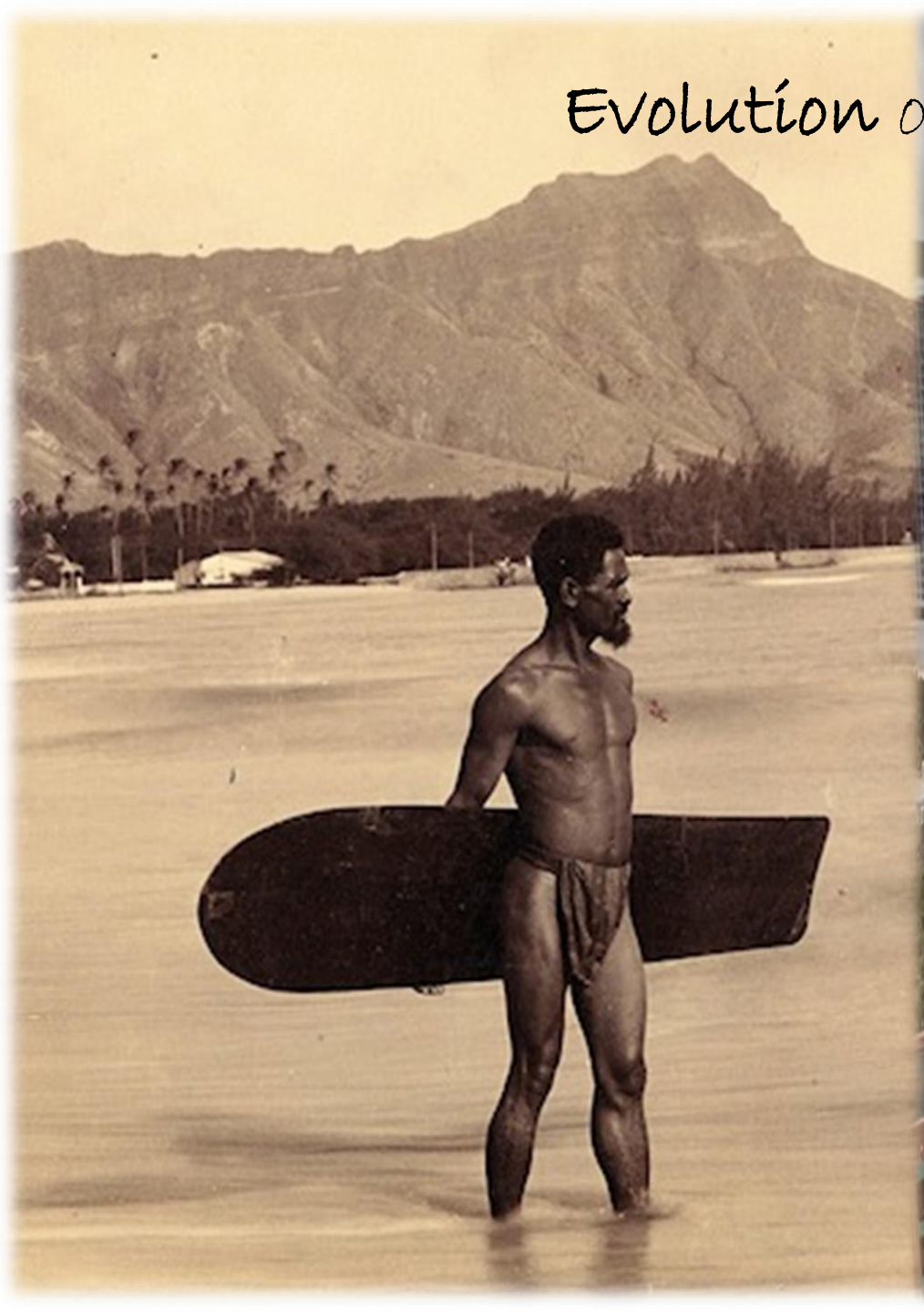


Modern Surfboard Design

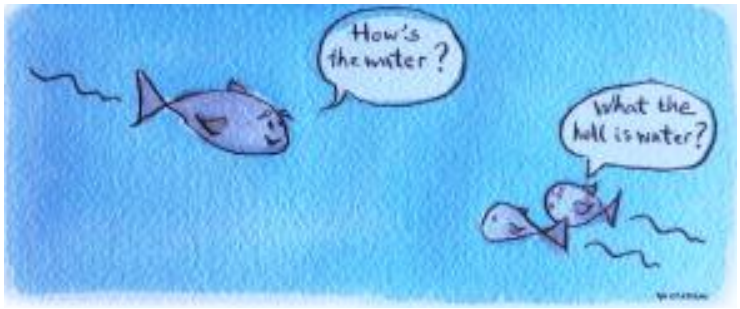
Plastic , composite & industrial production:

Hand shaped wooden boards were replaced by blanks made of chemical foam and polyester resin.

Evolution or Extremeness?



There are these two young fish swimming along and they happen to meet an older fish swimming the other way, who nods at them and says



«Morning boys. How is the water?» And the two young fish swim on for a bit, and then eventually one of them looks over at the other and goes,

«What the hell is water?»

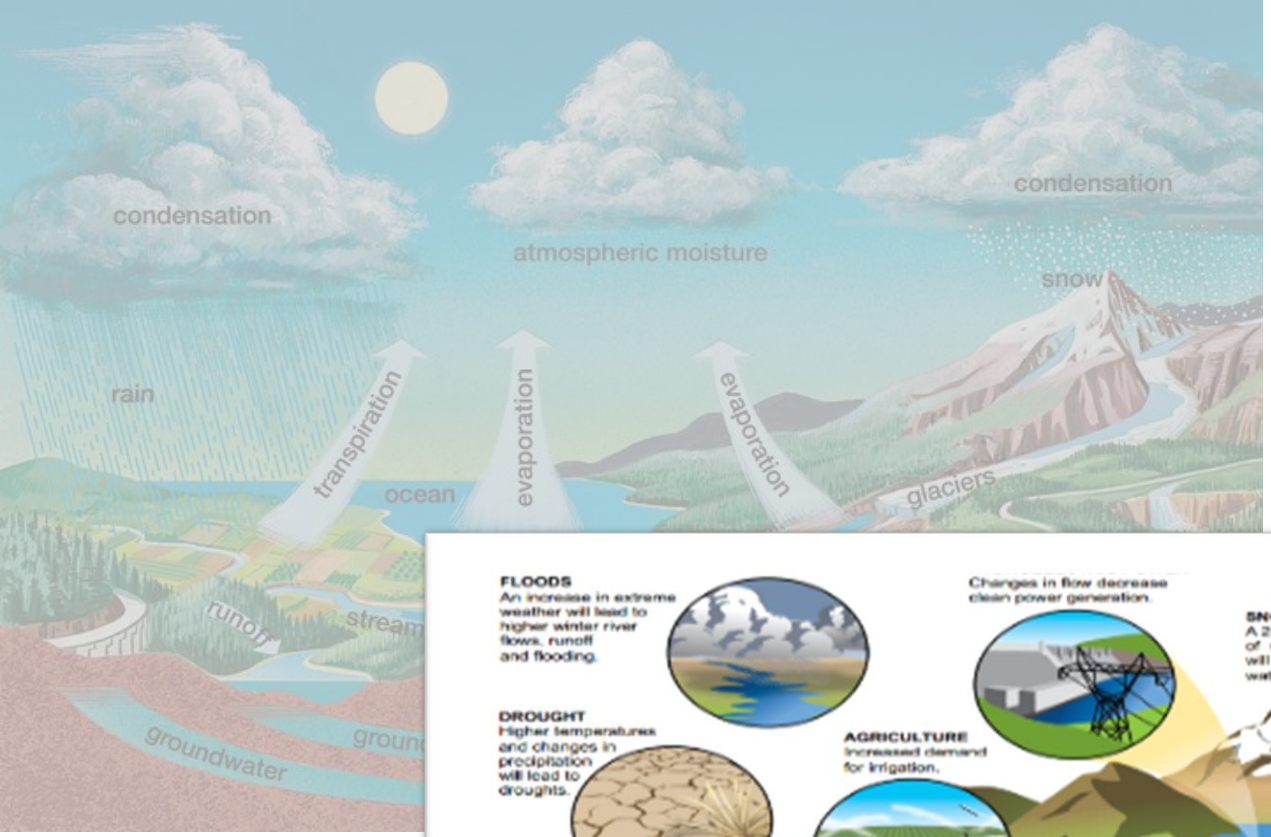
David Foster Wallace

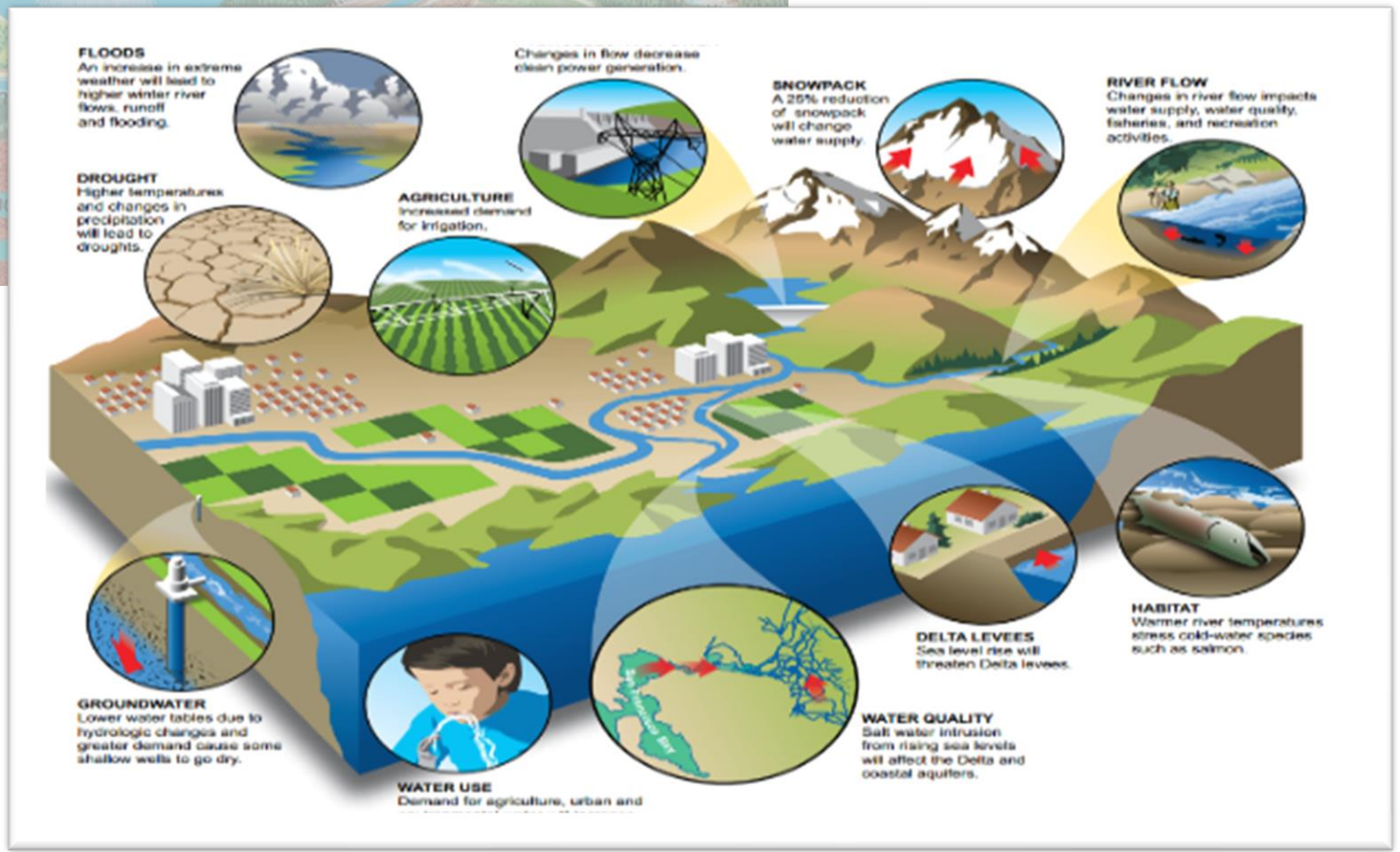
The most obvious, important realities are often the ones that are hardest to see and talk about.

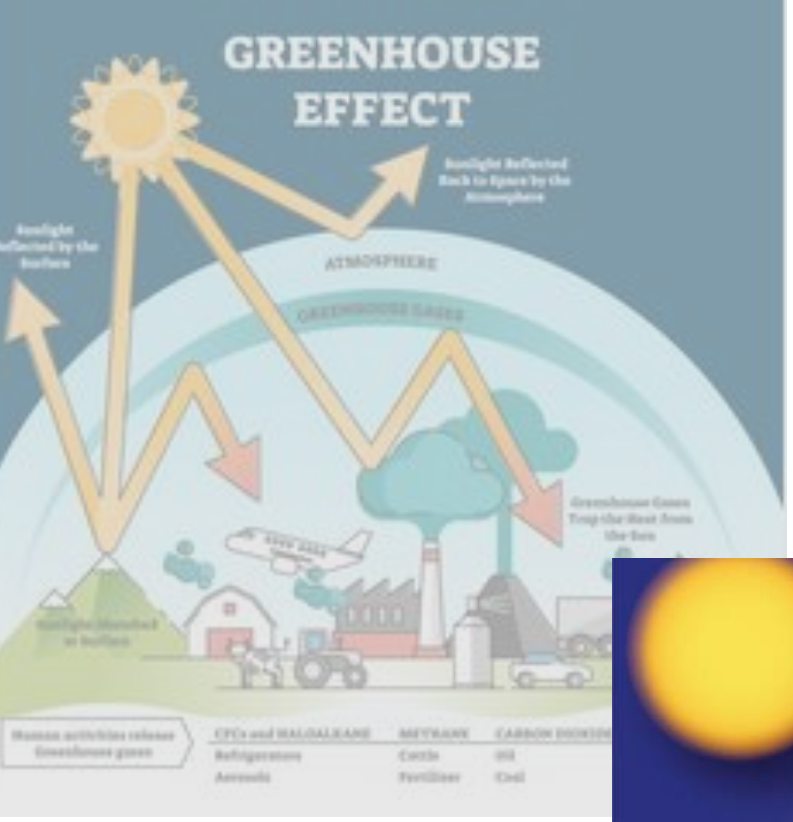
Environmental crisis

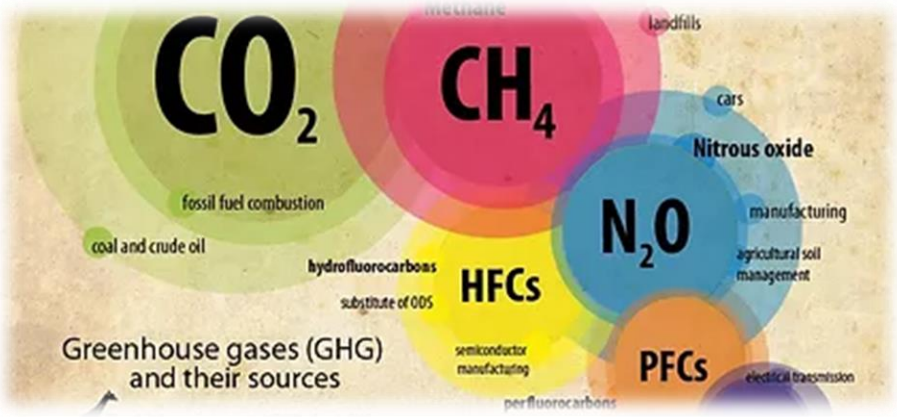
changes to the environment of a species or population and destabilizes its continued survival.

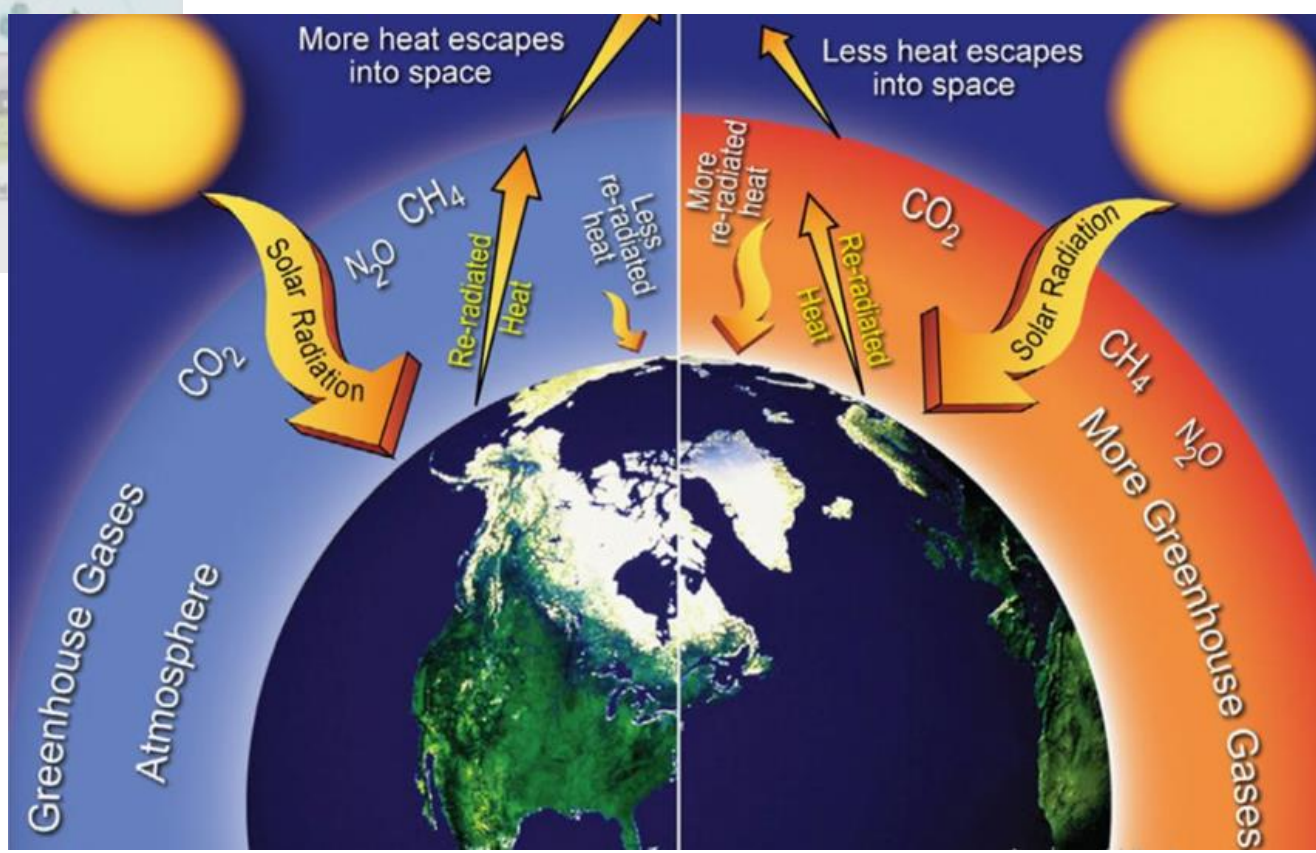
increase of temperature,
less significant rainfalls,
overpopulation


condensation
atmospheric moisture
condensation
snow
rain
transpiration
evaporation
evaporation
ocean
glaciers
runoff
stream
groundwater

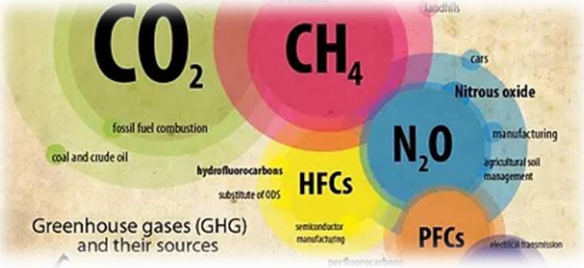

FLOODS
An increase in extreme weather will lead to higher winter river flows, runoff and flooding.
Changes in flow decrease clean power generation.
SNOWPACK
A 25% reduction of snowpack will change water supply.
RIVER FLOW
Changes in river flow impacts water supply, water quality, fisheries, and recreation activities.
DROUGHT
Higher temperatures and changes in precipitation will lead to droughts.
AGRICULTURE
Increased demand for irrigation.
HABITAT
Warmer river temperatures stress cold-water species such as salmon.
DELTA LEVEES
Sea level rise will threaten Delta levees.
GROUNDWATER
Lower water tables due to hydrologic changes and greater demand cause some shallow wells to go dry.
WATER QUALITY
Salt water intrusion from rising sea levels will affect the Delta and coastal aquifers.
WATER USE
Demand for agriculture, urban and

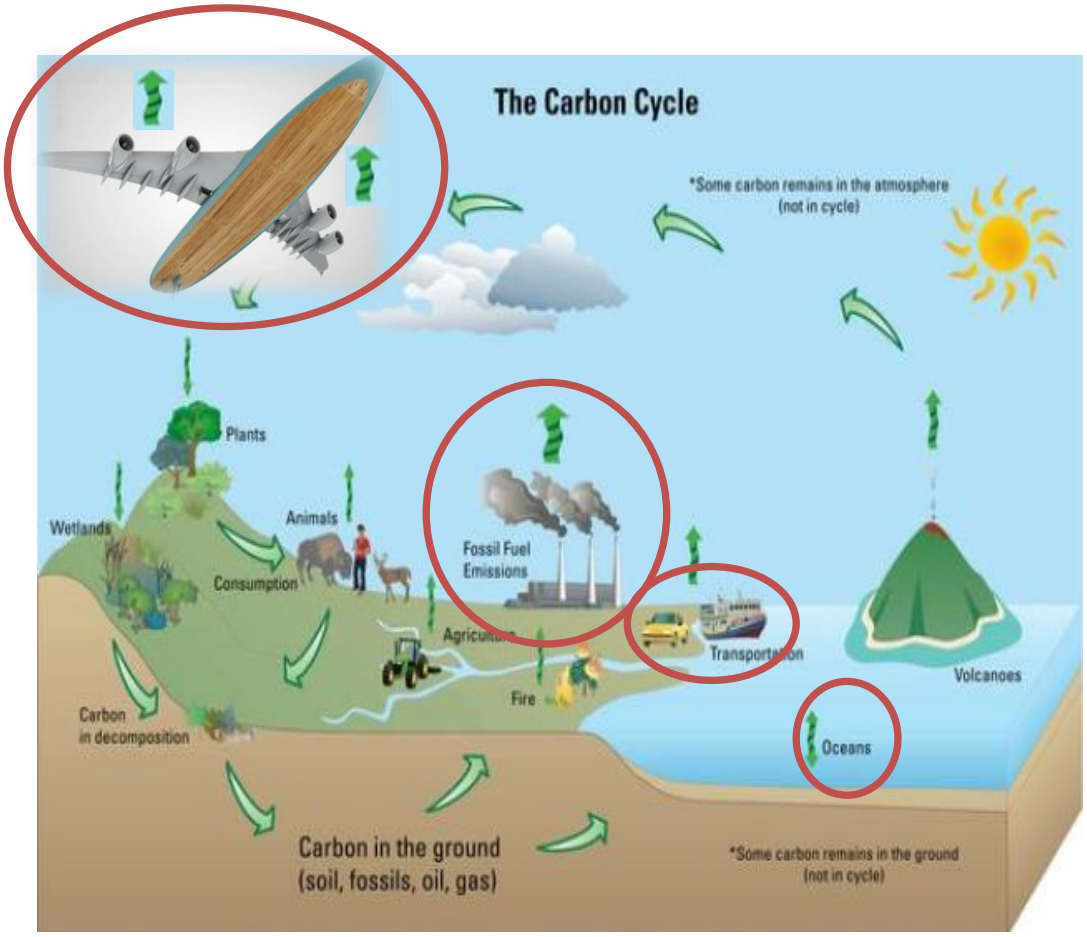

GREENHOUSE EFFECT


CO_2
CH_4
landfills
cars
Nitrous oxide
fossil fuel combustion
N_2O
manufacturing
coal and crude oil
agricultural soil management
hydrofluorocarbons
HFCs
substitute of ODS
Greenhouse gases (GHG) and their sources
semiconductor manufacturing
PFCs
electrical transmission
perfluorocarbons


More heat escapes into space
Less heat escapes into space
Solar Radiation
Re-radiated Heat
Less re-radiated heat
More re-radiated heat
CO_2
CH_4
N_2O
Greenhouse Gases
Atmosphere
More Greenhouse Gases

Greenhouse gas emissions…





…and the link to surfing:

.Emissions by producing Boards, Neopren and other Equipment

.Emissions when broken Gear cannot be recycled

.Traveling by Aeroplane , Car with combustion engine, Motorboat

»As surfers we immerse into nature«

»Its our **contribution, to the world**, to show others, **through our eyes,** whats going on within the **ocean** and to be a **responsible** and **sustainable role model.** «

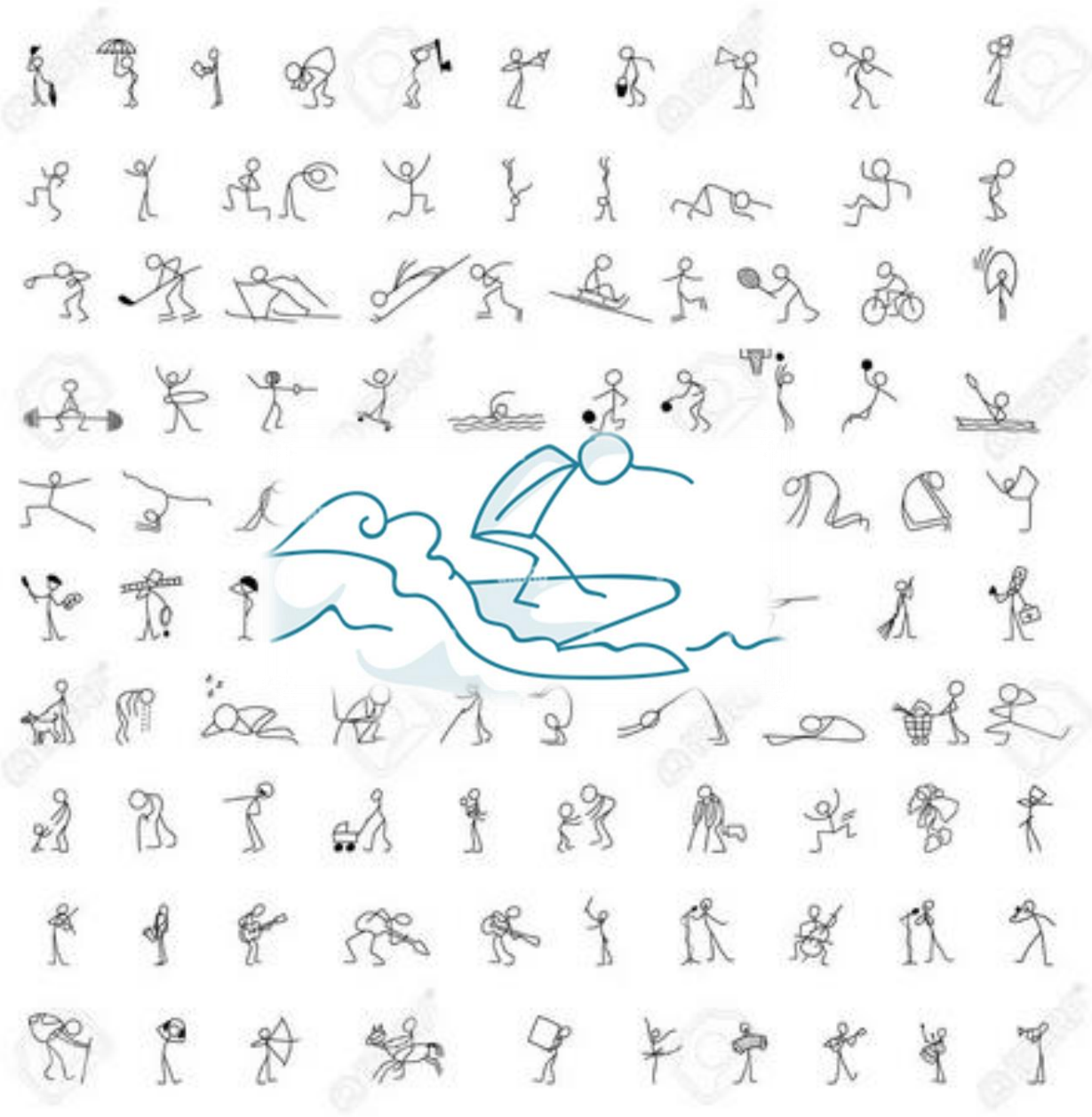
SUSTAINABLE SURF

"Avoidance of the depletion of natural resources in order to maintain an ecological balance"


»Walk the talk
...and surf walk«
Today he connected his passion and his values.
Running a sustainable Surf-Board- and Surfshop Business.

1 of a 100

Surfers are nearly 1% (50 millions) of the world population (8 billions)



.Repairing our gear

.Buy long lasting good quality

.Living a sustainable lifestile

.Respecting limited resources

.Being a role model for others

.Walk the talk – surf the walk

.Inspiring others

. Supporting ecological projects

.Suppoting local businesses

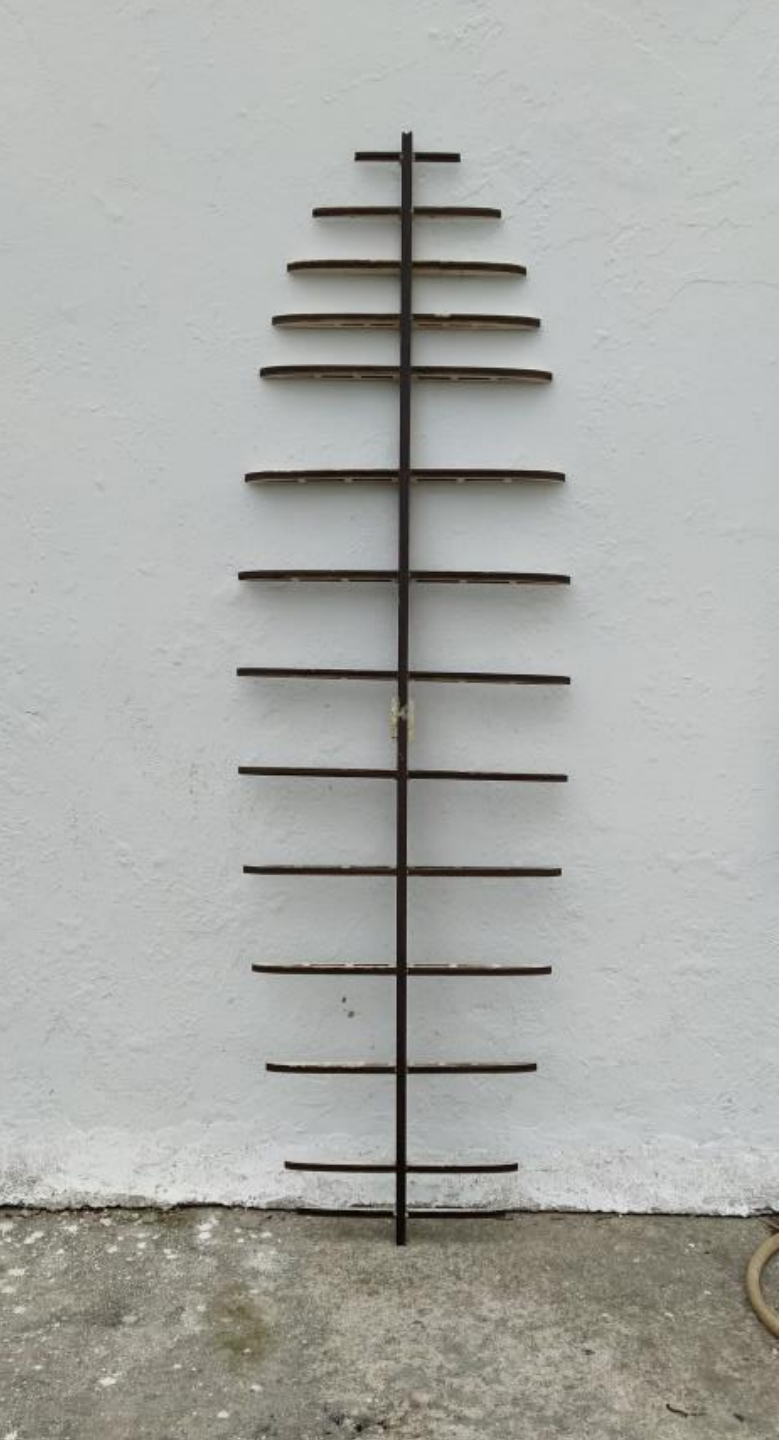
.Compensateing our flights
e.g. www.atmosfair.de


staff
esps
Place / Lieu Playa de SOMO
Date 20 de Mayo 2010 6 Clean Km / Km propres 4 m³
OCEAN INITIATIVES
www.initiativesoceanes.org
Surfrider Foundation EUROPE
www.surfrider.eu


Kun_tiqi

Sun God «Kun tiqsi Viracocha», known as the **founder of the Inca civilisation in South America** and his tribe subsequently had to leave the continent.

They **fled in balsa boats to the distant Eastern islands, 8000 km away,** where they were the **first to colonize** them.



It`s hollow inside

...just air and hardwood stingers


400MM
DEXTER

"Kun_tiqi" gives every surfer the chance to make their own contribution to nature by using a product, which is produced from eco- friendly and sustainable materials.


Kon_tiki
surfriders who care

Materials

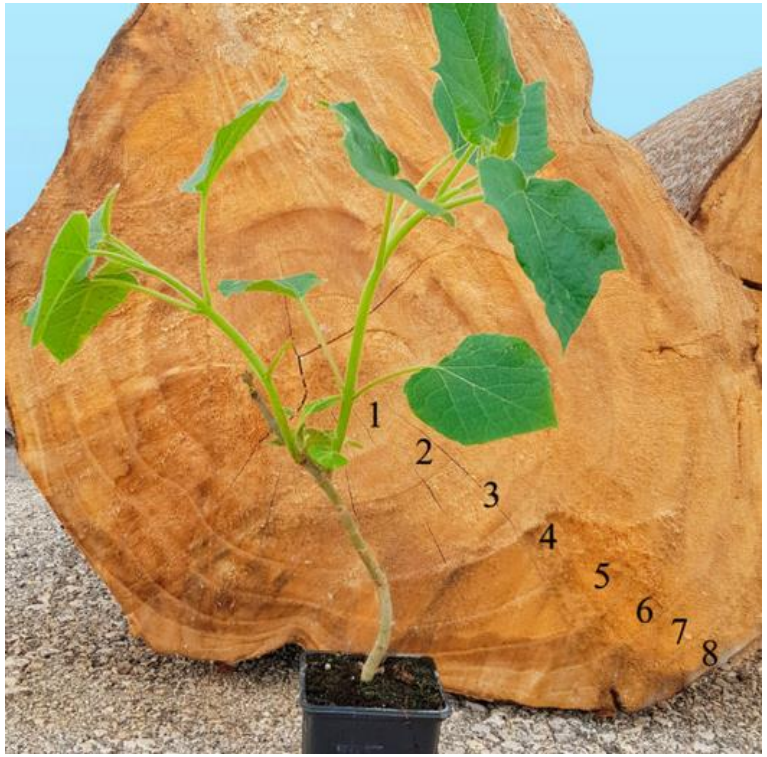
Wood: Paulownia (Portugal), Balsa (Equador), Sapele (Africa)

Resin: vegetable-oil-based

Vanish: waterbased

Cork: Cork-Oak (Portugal)

Paulownia-Tree



Cork
Oak
Forrest

.The bark regenerates frequently.

.Lifetime expectation: 180 to 250 years

.10 to 15 times harvestable.

.Produces a vast amount of oxygen.

.Storages tonnes of CO2.

natural,

biodegradable,

elastic,

impermeable,

lightweight,

recyclable


Kon-tiki


XCEL
Foto Meike Reijerman

jean.anglet.surf@free.fr

COLLECTIVE
SURFBOARDS

Sustainable and yet high quality

Lightweight

Adapted to modern surf

Based on classic surfboard shapes

Blank-Foam variants:

EPS (Expanded Polystyrene, recyclable)

Polyola (recycled from mattresses)

EPS-Foam, Paulownia-Wood and Cork:

Doesn't need any fiberglass for stabilisation, as it is strong enough itself.

The result is a light, eco-friendly board well-rounded by a natural feeling.

Paulownia wood

Salt-water-resistant, light, rigid, durable

Cork

Light, water-proof, flexible, very ding-resistant

Resin-Tint

It´s a unique piece of art!

Lamination

Eco-epoxy resin based on plant oil.


ecosurfshop.eu
surfriders who care
PREISE


surfing
eco surfshop


Swell

Professional Repairs

by Aitor

Workshop in Liberia


You have to do it because
you can`t stand not to do.
That´s the best reason to
do anything.