

# Sustainable Development

**Nick C. Parker, PhD**

**[www.nickparkerllc.com](http://www.nickparkerllc.com)**

**[nickparkerllc@gmail.com](mailto:nickparkerllc@gmail.com)**

**806-786-0925**

# **BUILDINGS**

**COMMERCIAL & RESIDENTIAL**

**CONSUME 2/3 OF ALL U.S.  
ELECTRICITY**

# **“SUSTAINABLE DEVELOPMENT”**

- **COINED IN 1987 BY THE  
WORLD COMMISSION ON ENVIRONMENT &  
DEVELOPMENT**
- **“DEVELOPMENT THAT MEETS THE NEEDS OF  
THE PRESENT W/O COMPRIMISING THE  
ABILITY OF FUTURE GENERATIONS TO MEET  
THEIR OWN NEEDS”**



# OIL INTO WATER

- **>17 MILLION BARRELS OF OIL/YEAR=WATER BOTTLES IN THE US**
- **3 BOTTLES OF WATER REQUIRED TO MANUFACTURE 1 PLASTIC BOTTLE**

# **SUSTAINABLE ARCHITECTURE**

- **CARBON FOOTPRINT**
- **MATERIALS**
- **RESIDUES**
- **ENERGY**
- **WATER**
- **LABOR**

# **MATERIALS**

- **VIRGIN OR**
- **RECYCLED**

# **INTERFACE, INC.-ATLANTA, GA**

- **CARPET MANUFACTURER**
- **IN 12 YEARS DIVERTED > 100 MILLION LBS OF CARPET FROM LANDFILLS AND SAVED > \$300 MILLION IN FIRST FIVE YEARS**

# **CARPET DESIGN**

- **PATTERN MATCHING IN CARPET CAN WASTE UP TO 90% OF THE CARPET**
- **RANDOM-PATTERN CARPET REDUCES WASTE TO 10%**



# CONSTRUCTION MATERIALS

## CONVENTIONAL

- LUMBER
- BRICKS
- STONE
- CONCRETE
- GLASS
- STEEL
- ALUMINUM
- ASPHALT
- PLASTICS
- COPPER

## ALTERNATIVE

- PAPERCRETE
- STRAWBALES
- RAMMED EARTH
- USED TIRES
- BOTTLES
- CANS
- GLASS
- LUMBER
- CONCRETE
- ADOBE
- COB

# PAPERCRETE

- **COLORADO**
- **NEW MEXICO**
- **MASON, TEXAS**



# STRUCTURED PANELS & BLOCKS

- WOOD CHIPS W/CONCRETE
- WOOD CHIPS W/PLASTIC
- AG RESIDUES W/BINDERS

# EARTH PRODUCTS

- COB
- ADOBE
- RAMMED EARTH

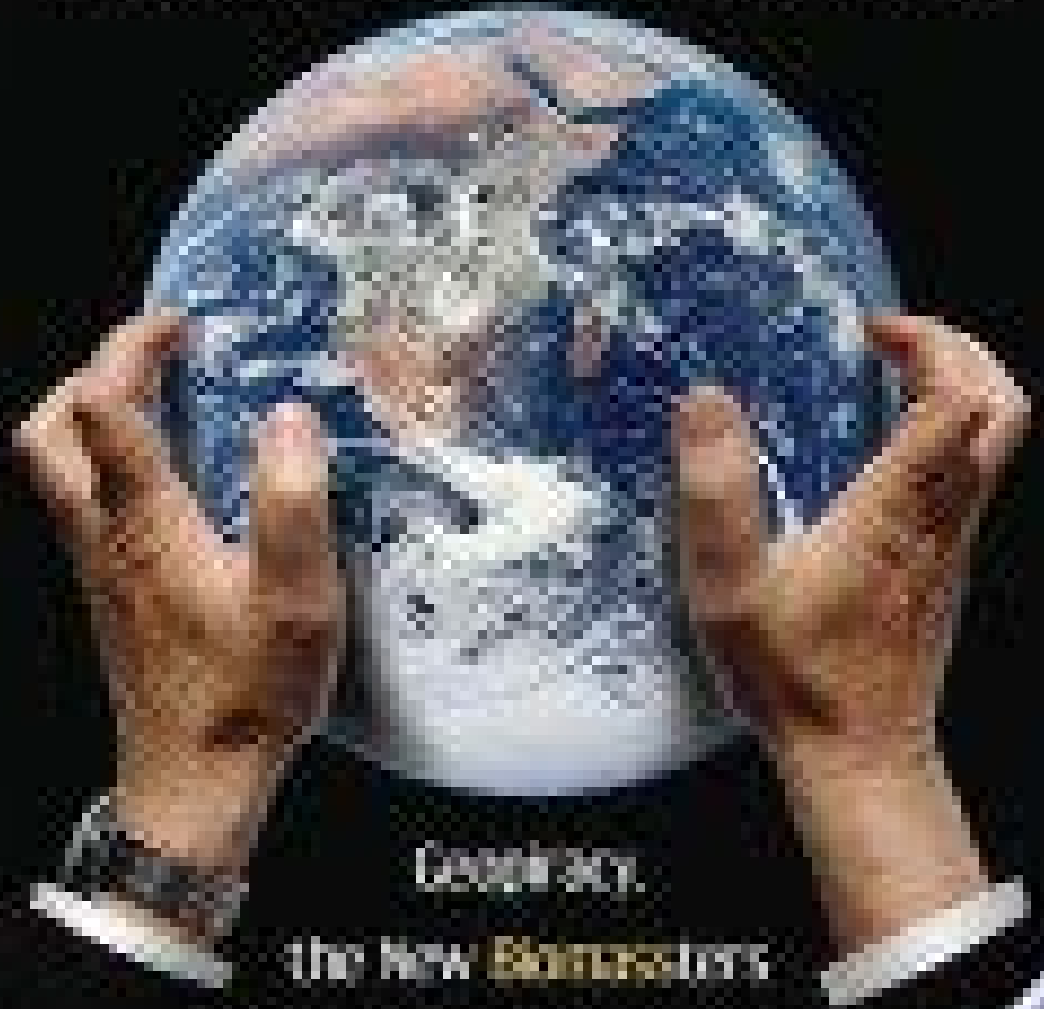


# Re-build the Earth

- **Geo-engineering**
- **Build an atmosphere on Mars**
- **Build new life on Earth**
- **Add Iron (Fe) to oceans to stimulate algae to remove CO<sub>2</sub> from the atmosphere**
- **Deploy particles in the atmosphere to reflect sunlight**
- **????????????? What's next ??????????????**

- **Earth Grab:**
- **Geopiracy,**
- **the New Biomasters and**
- **Capturing Climate Genes**
- **By Diana Bronson**

# Earth Grab



Geopiracy

the New Biomasters  
and Capturing Climate Genes

# Earth Grab

'Geopiracy' analyses how Northern governments and corporations are cynically using growing concerns about the ecological and climate crisis to propose geoengineering 'quick fixes.

"The New Biomasters' a biomass economy based on using gene technologies to reprogramme living organisms to behave as microbial factories will facilitate the liquidation of ecosystems

'Capturing Climate Genes' shows how the worlds largest agribusiness companies including **Monsanto, BASF, Dupont and Syngenta** are pouring billions of dollars into, and claiming patents on, what are claimed to be 'climate-ready crops'.

Allowing industrial agriculture to expand plantation monocultures into lands currently cultivated by poor peasant farmers to feed only the gluttony of corporate shareholders for profits.