

Chapter 1 Seismic Cartology 2000

Forward to a Non-Linear Connectivity

SEISMIC DANZE

SELF-ORGANIZED NODES AND FLOWS

I have lived in Stavanger, Norway experiencing the oil boom for the past 40 years. One day while walking the harbor front I observed a Seismic Ship moored in the harbor. It suddenly occurred to me that as an artist I could use the seismic data and maps that these ships collect and have a look into the non-linear digital sub-surface landscape that has until now remained invisible

From the model of geological stratification one can correlate the virtual world of the internet . What these environments have in common is that they constitute a map and this map is open ending and connectable in all of its dimensions.

Suddenly we are able to enter into the domain of *Self-Organization*, where stratification exist not only in the world of geology, but also in the virtual, organic and human worlds. Where the "abstract machine of stratification" (delanda) is the result of the coming together and interlocking of heterogeneous elements.

Self organization is the sustainable concept where we navigate through cross-fertilization, complexity, heterogeneity, multiplicity. Self-organization shows itself in *participation* in-between many shareholders. We have to change our attention away from the "within" on to the "in-between." What is in-between two objects is their ability to create flow and emerge into a new relationship, new communication nodes.

Seismic Danze is an attempt to create an Art based on the concept of self-organization and interdependent nodes as we navigate into a precarious 21st century.

Randy Naylor

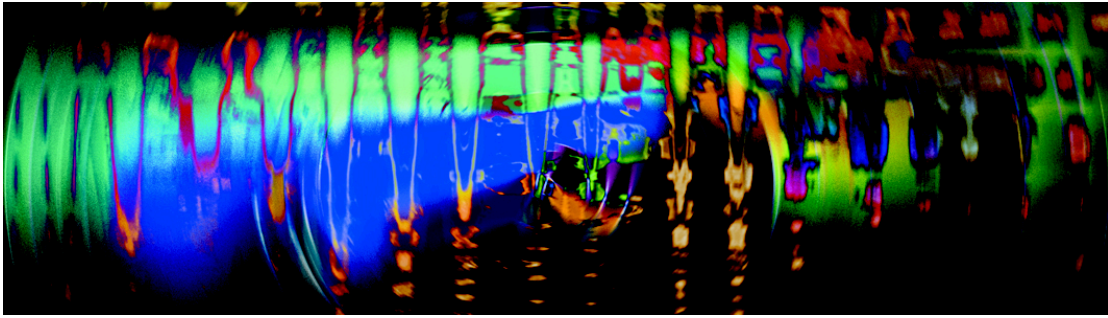


Statoil Building Forus Norway 2001

”Non Linear Sedimentary Stratification”

*How to transform seismic maps made to find oil
into Social Sustainable maps to trigger
Sustainability.*

HERE WE GO



Seismology DNA of Norway 20th Century

21st Century Strategy for Art&Architecture

Randy Naylor 2019

(I worked as a lecturer at the Fiuni School of Architecture in Stavanger I collaborated on several projects with Helen&Hard Architects over a ten year period. Our task was to create a new Template generating Sustainability and Social Sustainable Art.)

MAPPING IN THE ANTHROPOSCENE

How to create a contemporary Art&Architecture strategy and creative philosophy to compete with Big Data Algorithms, Robots and Climate Change challenges?

Big Data is a Mapping strategy developed by Tech Industries to reap commercial benefits from the unaware consumers. FaceBook pretends to be a free service where in fact it is a

mapping system that sells your personal data (Likes) to consumer companies at high profits. This is the Exploitation of the unaware consumer.

Big Data develops algorithms to standardize consumer buying patterns to decide what you buy. The algorithms are designed to collect information and manipulate buying patterns. They pretend to give a range of choices, where in fact the opposite occurs. Your choices are narrowed down to what the algorithm sorts out and manipulates resulting in a control and distribution monopoly for the Tech Industries. The Tech Industry practice income distribution disruption as they create unsustainable pyramid business scheme.

An Organic Algorithm

The 21 Strategy for Art&Architecture is one of Connectivity. How through inclusive connectivity a sustainable and creative environment will foster. This is a strategy base on the assemblage of the Parts vs the Whole. The Parts are Relational and Responsive and connect through Self Organization and environmental sensitivity and awareness.

The Environmental algorithm is completely opposite of the Digital algorithm. The environmental algorithm is Tactile and Cosmic. It is nonanthropocentric as it includes all that is living. The environmental algorithm is non-linear and will trigger the unknown. Therefore it is a more valuable resource than a digital algorithm that is designed to be exclusive and selective and artificial. (AI)

I will present in this cartograph three major projects where I have developed an Organic Algorithm. Mandal Skap 10, ArtNode and Panda Breeding Diary performance group.

First let me present a new Glossery helping to define and map an Organic Ecology.

21st Century Mapping Glossery

Glossery to navigate this new Mapping field

Mapping: Traces out unpredictable, vagrant itineraries through landscapes not given in advance. plot lines of entwinement between knowledge and power, discourses and practices, between the real and imaginary.

Topology: Invariant Space, where objects can be stretched, bent, warped, folded and shelled. Quasi Objects

Rhizome: A rhizome is a non-linear network that connects any point to any other point. A multiple, spread out, all proliferating and without boundaries, centers or margins of limits.

Third Space: Casual Interactions and Relational space. Assemblages and Multiplicities. Phase-Space

Parts & Wholes: The whole is always less than the sum of its parts. A Multiplicity of parts that exceed the whole, rather than the Whole swallowing up the parts perfectly.

Auto-Poiesis: Varela describes the process as a way of bringing forth and mapping out a territory at the same time. An infinite play of the interface. Nodes

Transversality: Must be understood as opposition to both vertical hierarchies and horizontal structures. Pursue different series, travels along different levels and cross all thresholds..

Situationalistn International: "Sum of Possibilities" A renewed creative investment of spaces and places, A new cognitive mapping replacing postmodernism and dualism

Organic Algorithm: Procedural vs Declarative. Esprit de finesse, the particularities of sites, the unpredictability of circumstance, the uneven patterns of the landscape and the hazardous nature of becoming.

"We cannot solve contemporary problems by using the same kind of thinking we used to create them." Einstein

New Tuning: Tuning into the Environment as it Tunes into you." Post Anthropocentric Creativity. Stigmergy! (Alreadiness) (Morton) "Alreadiness hints at our tuning to something else, which is a dance in which that something else is also already tuning to us." Energy Fields

John Cage. "The world is Teeming, anything can happen." Art is Telepathic! It is casual, it affects you. An Energy Field, a Force Field.(Morton)

I created the Paradigm Shift graph below to illustrate the shift a Homogeneous environment to a Heterogeneous environment to a Self-Organized environment.

The Non-Linear Paradigm Shift Toward Self-Organization

www.randynaylor.com rmaylor@online.no tel. 916 916 33

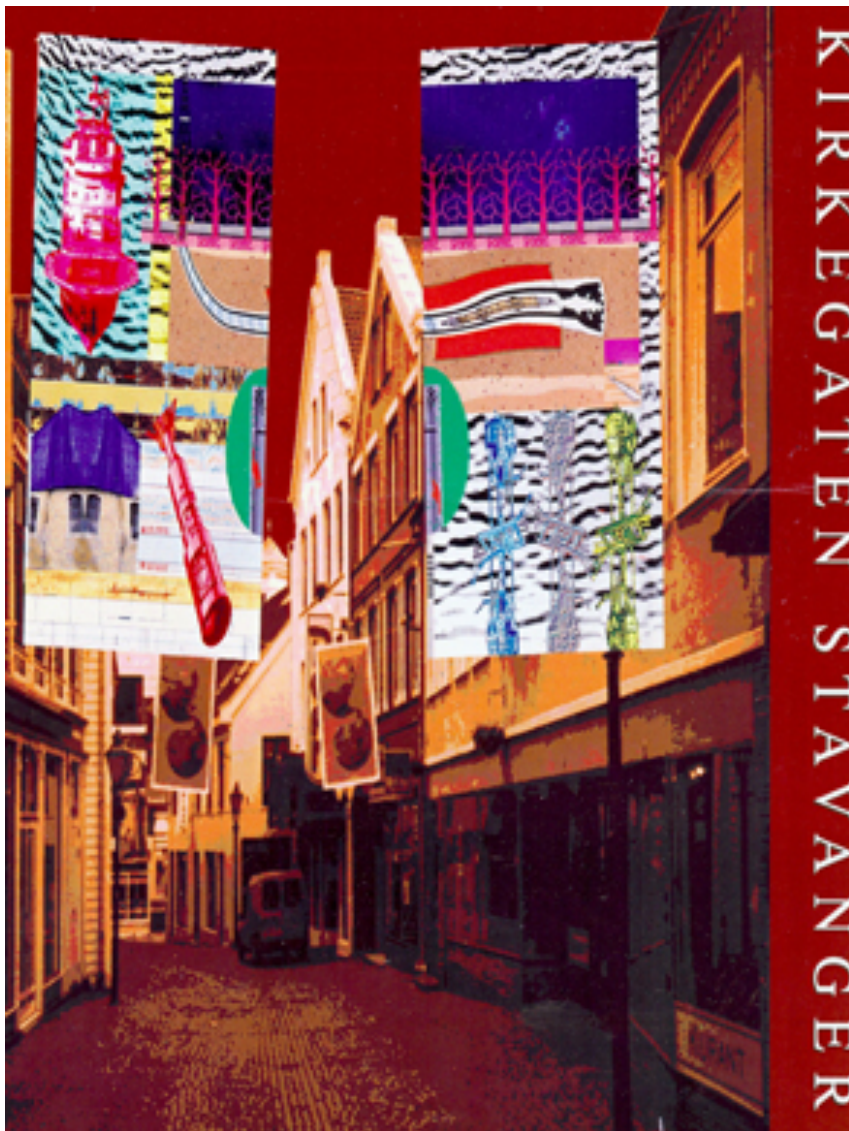
Homogeneous	Heterogeneous	Self-Organisation
linear	non-linear	open source
hierarchy	links	adaptability
segregated	interface	trans-disciplinary
Analogue	Digital	Biological
transparent	opaque	self-organized
abstract	hybrid	nodes
network	meshwork	topology
Participation	Collaboration	Play
false participation	stakeholders	open ended
top down	parallell	bottom-up
time	creativity	relational
Surface Analysis	Geology	Knowledge
dependent	interdependent	emergence
independent	distribution	tactile (5 senses)
centralized	ecology	form-generation

Transforming Seismic data from oil fields to create an Ecology of Mind and Environment. I have pointed out in the introduction that my father was the chief geologist for Esso Norway. I grew up with fossils, core samples and indian arrow heads as the art work in our home



Seismic Butterfly Effect

Seismic Street Art Stavanger



Walking Through a Stratified Non-Linear Field

Seismic Street Stavanger 2000 ONS Conference

Seismic Street Stavanger. During ONS Stavanger. The European Energy Conference I teamed up with Aker Solutionsn Geology department and Cyviz to create a 3-D Seismic Installation. The public was invited to walk through a non-linear seismic field of 50 meters stretching through the main walking street in Stavanger.



Walking through a 3-D non-linear Seismic field in Kirke Gaten Stavanger

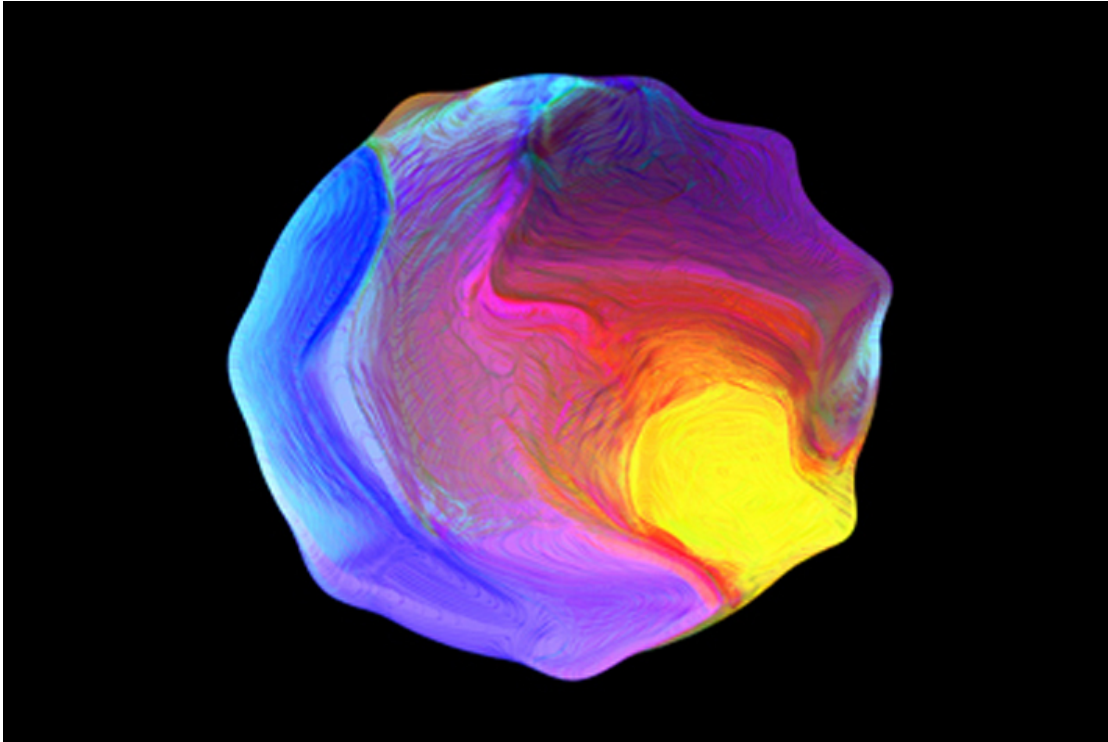
See Seismic films on this site:

Seismic Lights 6 mp4

ONS Stavanger Seismic Field Kirke Gate Stavanger



Form Generation Graphics became the next step following my investigation through Seismic Data and Non-Linear fields.



Noise, Contigent, Emergent and Self-Organized Maps

This series of graphics has been in the process for 12 years. It started with the Seismic Graphic Series. With the Seismic Graphics I was trying to find and illustrate a non-linear system. A system base on the organic process of self-organization.

I was directly opposed to a linear top down command and control system. This type of behavior has given us the assembly line, the military industrial

complex, the food industrial complex and a very unhealthy society and an environmental disaster.

Form Generation returns us to an organic process. This is a complex process where everything is connected and regenerates itself. The system is not based on Abstraction, where one separates "the parts from the whole" as in an old theory Modernism. This has been the old top down segregated formula that has led us to the Social, Economic and Environmental abyss.

Form Generation represents conservation, an "Autopoesis." Self-Organization and distribution of energy and integrity. "The universe is seen as made up not of things, but of flows and relationships." Where in the past we looked at collage techniques and cut and paste techniques. In form generation, we look at flows and the multiplicity of variables. Time is now measured as organic, ecological and geological matter. Not a linear, impute/ output time machines. The universe is made up of flows and relationships, The Dualism is dissipated into Wonder!

This graphic series represents the nodes and flows, the multiplicity and how all things are connected. The starting point is a hand drawn organic figures. Through an emergence process it becomes a golden band, a butterfly effect, then to a sea of blur. In this blur new forms and actions appear. Our task now is to create templates where we can act and invent. We fade away from the Dualism and Objects that freeze our behavior. Things Flow!

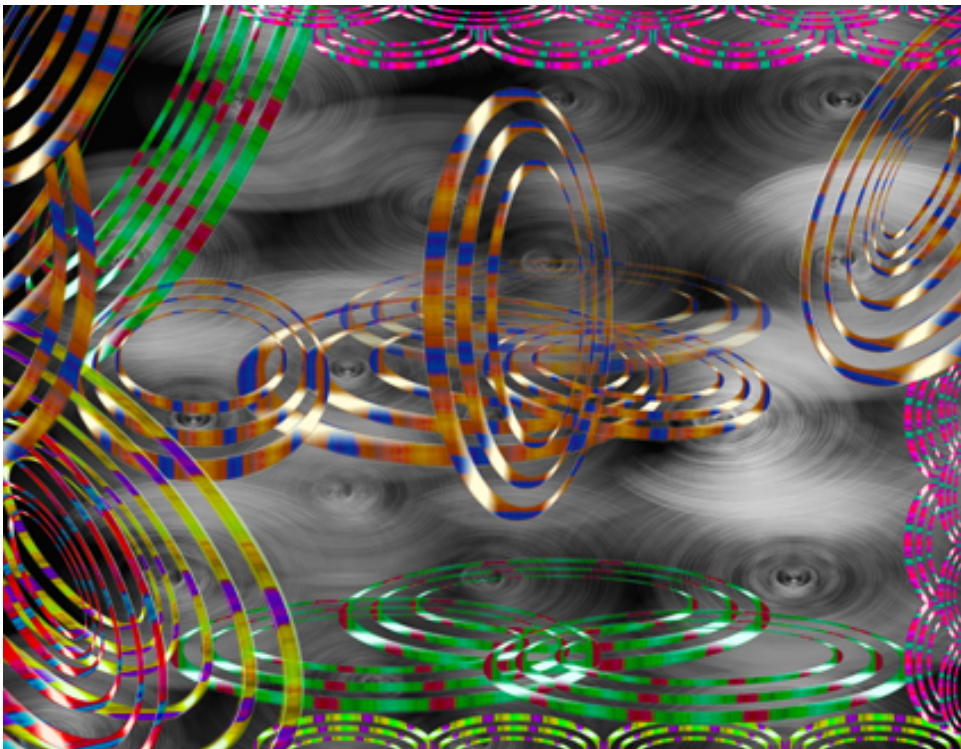
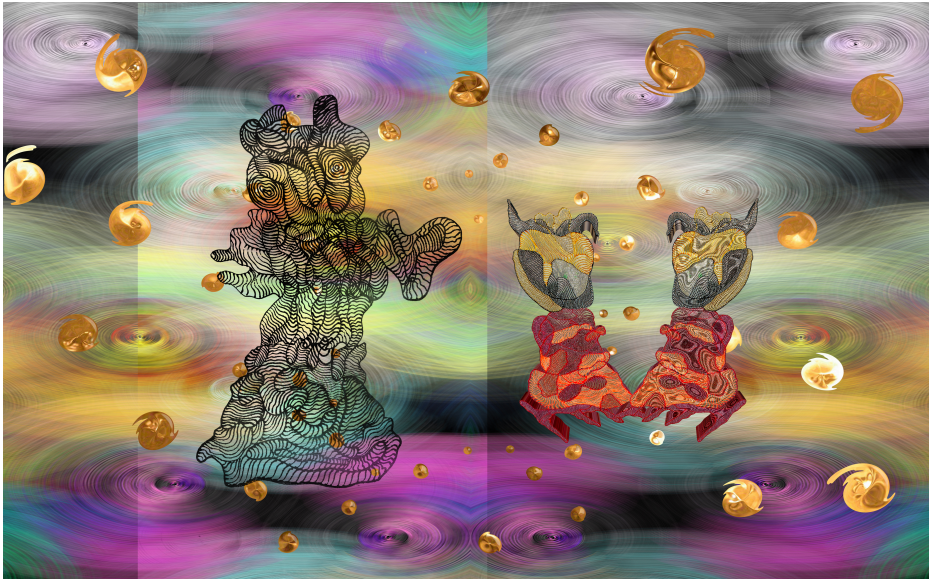
From Seismic to Form Generation Graphics

Randy Naylor

The 20th century invention of Cubism by Braque/Picasso presented the viewer to see the world in a new dimension. Cubism allowed the viewer to see three sides of an object at the same time. This knowledge changed the way we see, think and created knowledge.

Today we stand at an equal paradigm shift. This is the beginning of the Form Generation knowledge creation. We arrived here by the need to create a Sustainable form of living and thinking. To reinvent our self and save the planet. The industrial revolution and the by products of pollution, climate change, over population and the mechanical society is now replaced by a Form Generated and Self Organized way of adapting. Think of this as a Recycle Mode. This is a much more complex modal than the Circular Economy. Form Generation produces hybrids and is not recycling itself. Think about this as what AI calls Machine Learning. Except this is an entire Eco System that does not repeat patterns to be copied. Form Generation is an inclusive emergent casual relationships. In Deleuze terminology it is BWO (Body Without Organs). An entire systemic ecological, cosmological, technological, biological system.

My new graphic series is morphogenetic: Morphed (form) and Genesis (creation). This is a process where the organism regenerates itself. The best ecological example would be a coral reef and other anti-entropic systems. The graphic is created from its own forms and morph into a series, or a distribution of energy. What I learn from the Seismic and the Form Generation graphics I will later apply to the public participation projects and the improvised music performances.



The belt rings form a continuous series of circles. Then organization code of form generation is Bend, Warp, Shell, Crease and Fold. The Wind Graphic below is morphed from the Rings above.



Waters of Mystery

Randy Naylor

Soft Eyes

Sea Eyes

I know how our message

migrated from other lands

where birds sing morning songs

to awaken the night

I visit your shores

with naked skin

to receive your dreams

I no longer boat across your fields

It is the under currents I seek

melodies for my inner ears

The shore is a fisherman's net

holds me like a wet prisoner

I am lost between the lines

So I will dive

deep into the indigo

I free myself

to the waters of mystery

Or is it

I only return

