

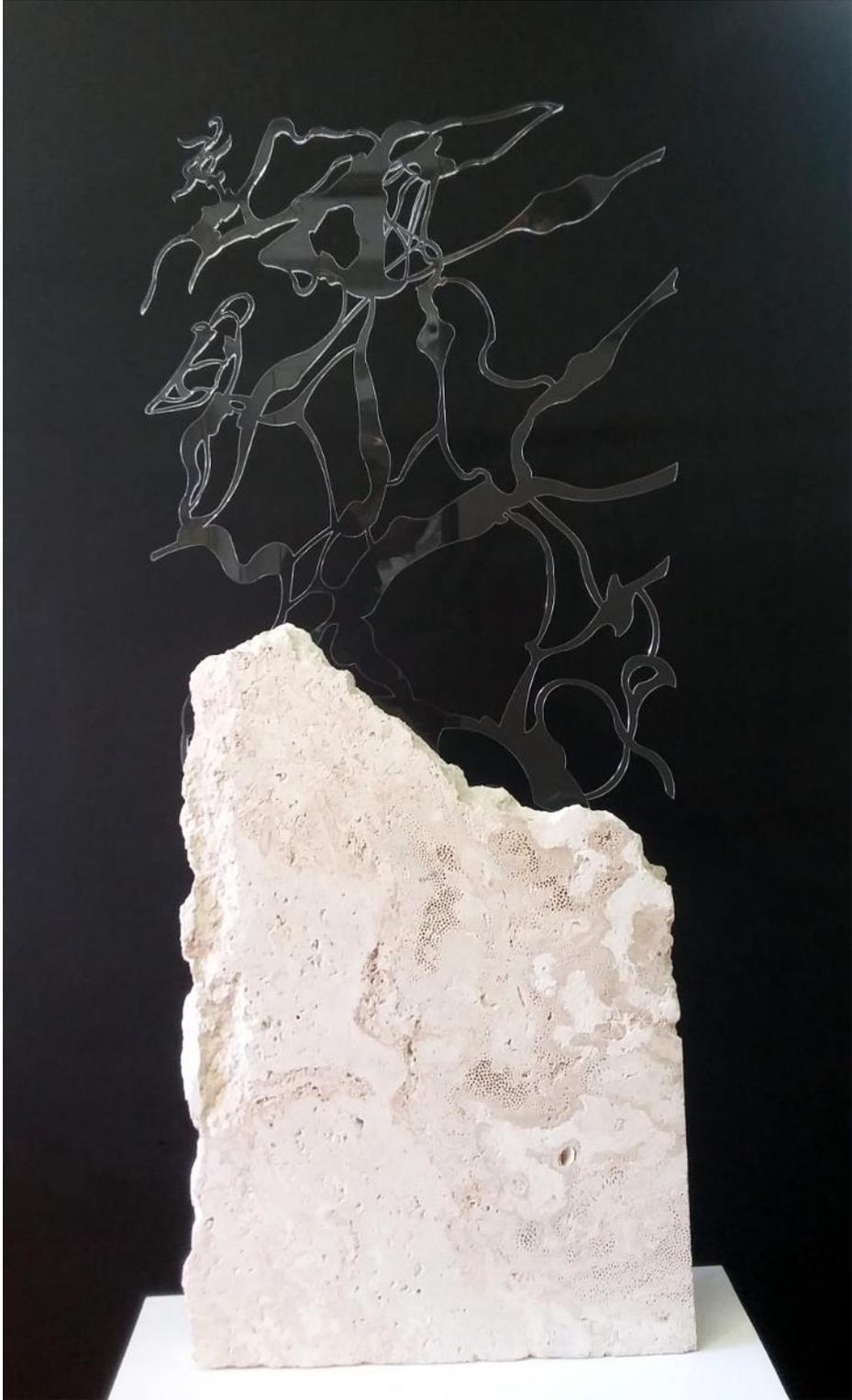
ANIMATE FIELDS AND THE ARCHITECTURE OF THE UNSEEN LANDSCAPE

As a sculptor, I am drawn to the visual animations of fluid dynamics and magnetism that explore the underlying structure of the universe. Fluid dynamics is the study of the mechanics of flow in liquid, gas and air; while magnetism is the dominant force structuring movement. As relevant subject matter for an architecture biennale I am contributing new work to the GAA Foundation's TIME SPACE EXISTENCE exhibition that seeks to visualize dynamic structures and engage in dialogues on chaotic geometries in context with art and architecture.

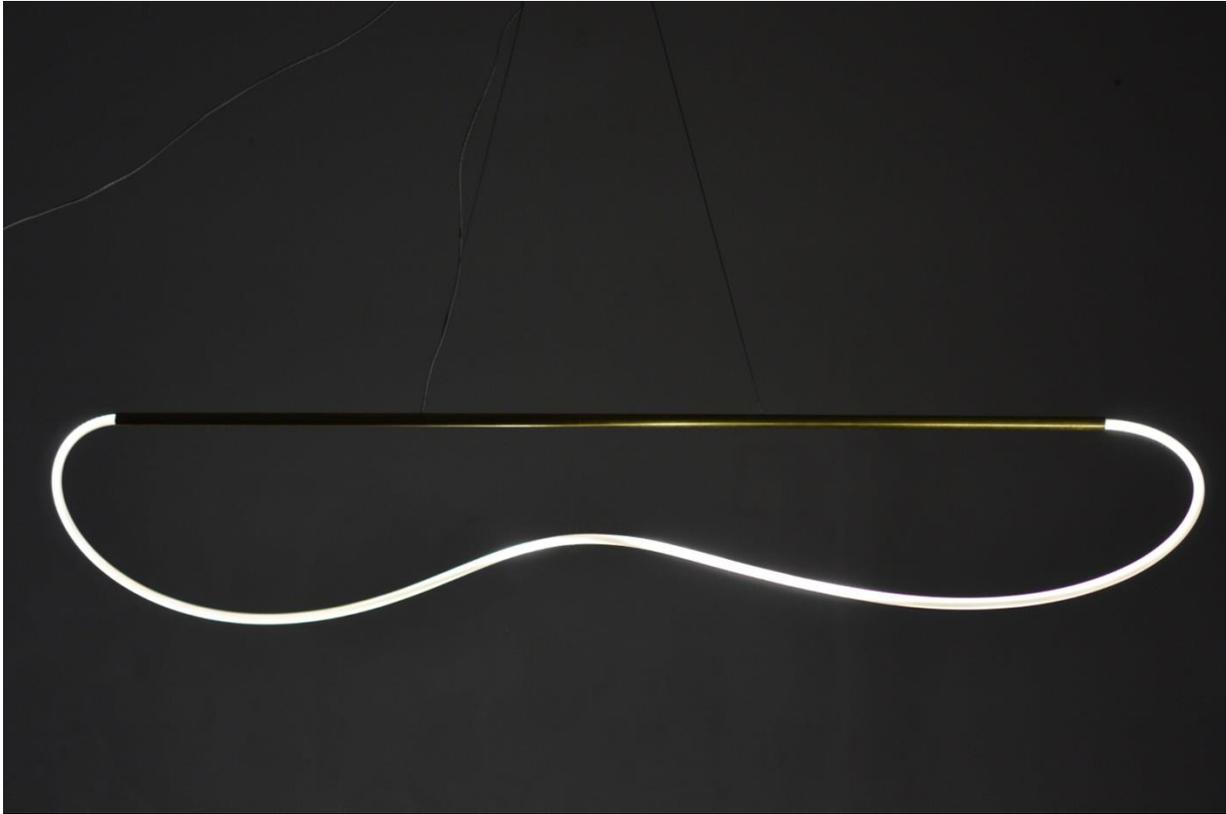
Tidal Skeleton portrays the skeletal structure of water through a quarried slab of limestone paired with the pattern of the sun's reflection on water cut out of clear acrylic. The weight of the solid, opaque stone is juxtaposed with the glass-like clear acrylic. Limestone, especially Keystone limestone from the Pleistocene age is composed of the sediment from skeletal fragments of marine organisms. It is a porous rock full of residual fossils defined over time and space. Clear acrylic is transparent but a solid plastic material. The contrast of pervious and impervious materials was important for a work that represents fluid dynamics, which affects both the formation and deterioration of matter.

Magnetism is the dominant force of our universe, and like fluid dynamics, part of our unseen environment. Magnetic fields are ubiquitous, largely invisible, and in a permanent state of flux. Architecture shares a long history with magnetism since the compass was one of the first means of establishing orientation. For an architect, orientation is the measure from which all other measures follow. For many sculptors magnetism is synonymous with gravity, but I see magnetism as synonymous with structure. *Map of Random Attraction* and *Static Light* are very different works, yet both strive to capture the chaotic geometry of magnetic fields.

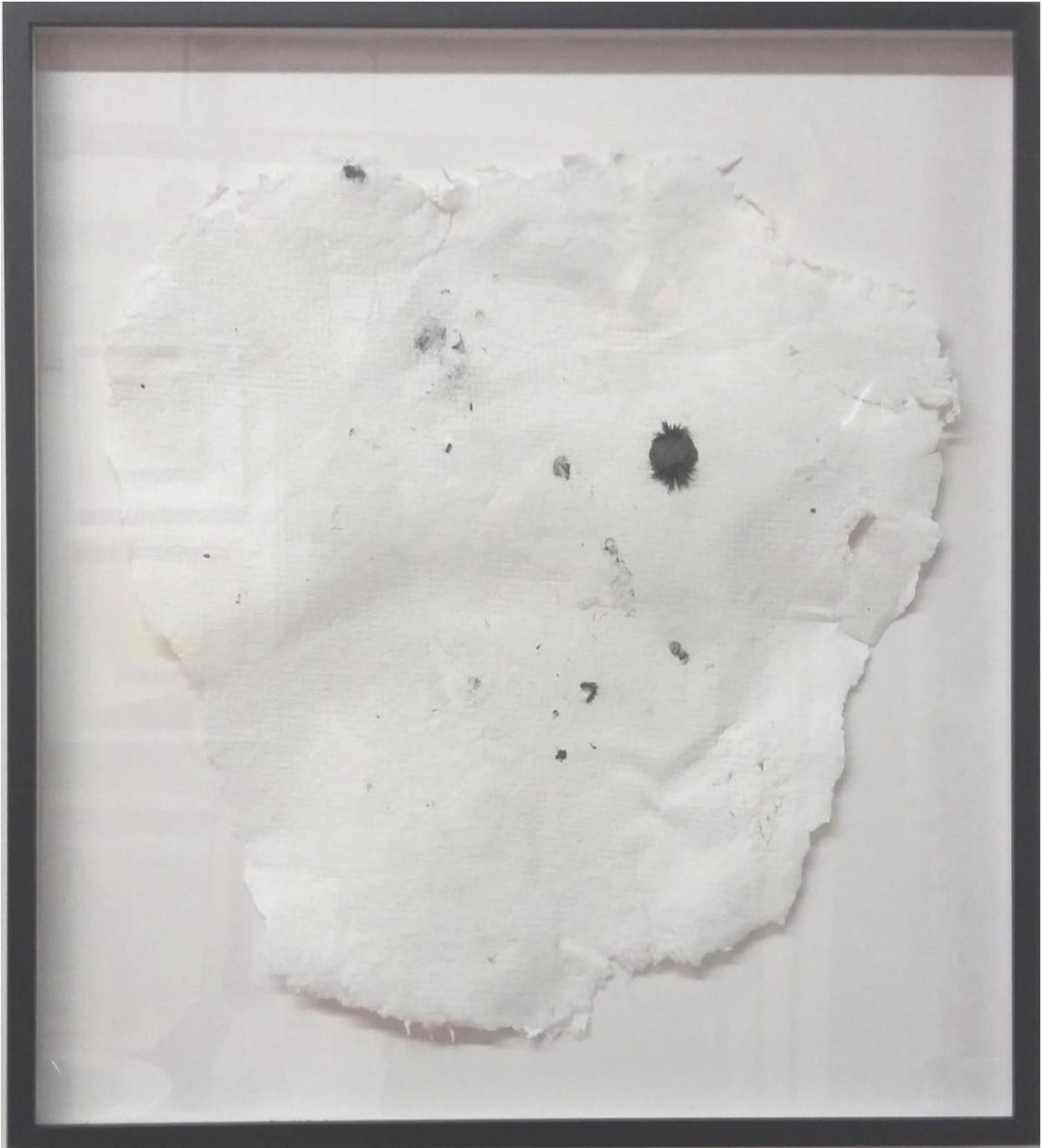
Map of Random Attraction is part of a series of handmade paper works that combines crushed magnet and/or iron with paper pulp to create embedded magnetic maps. *Static Light* depicts an oscillating wave of light contrasted with a linear rod. Light is analogous to seeing. Unseen, magnetic fields of electric currents occupy our environment in a permanent state of flux. Both artworks explore magnetism structurally, seeking new forms and perspective. Far from the calm sequential geometry found in Fibonacci's patterns, the geometry of magnetic fields manifests in chaotic patterns. Following the advance of science and our understanding of the magnetic geometry and fluid dynamics is a challenge to renew our perception of time, space and existence, breathing new life into static forms that shape art and architecture.



Tonya Hart
Tidal Skeleton
Coral limestone, acrylic
12 x 12 x 60"



Tonya Hart
Static Light
brass, LED tube
12 x 12 x 72"



Tonya Hart
Map of Random Attraction
Handmade paper with crushed magnets and iron filings
14 x 15"



Tonya Hart

Map of Random Deterioration

Handmade paper with crushed magnets and iron filings

14 x 15"