





"This Liquid Dream": An Interview with Aquaphoneia Composer Navid Navab

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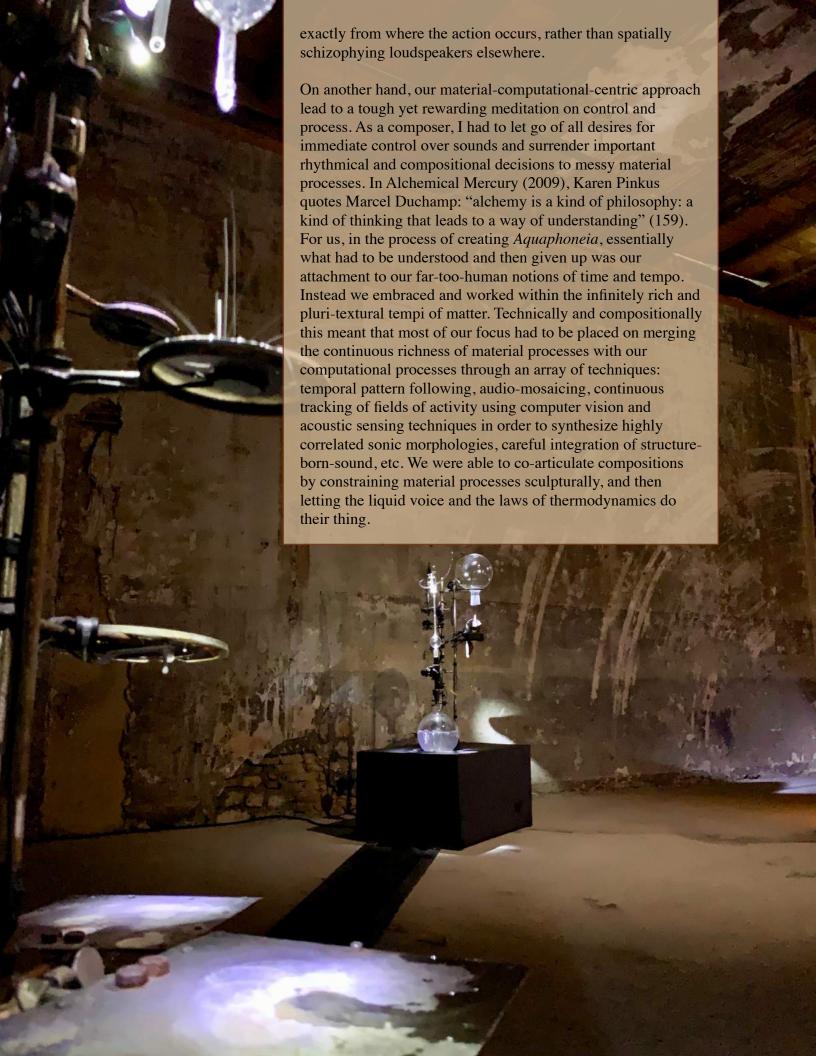
EB [Esther Bourdages]: The theme of the 2016 Ars Electronica Festival, RADICAL ATOMS – and the alchemists of our time, is very close to the Topological Media Lab's mission: transmutation and alchemy on the philosophical and phenomenological level. For *Aquaphoneia*, can you expand on alchemy and specifically on how this art piece stands out from your past work? How did alchemical thought process and production techniques come up in the process of the piece?

NN [Navid Navab]: When the 2016 theme for Ars Electronica Festival was announced I was happily surprised and thought: finally, things are coming to light at a much larger scale. Yes, please can we reverse the still prominent European Modernism's separations—between the conceptual and the material, the precise and the messy, the sciences and the arts—and go back to the holistic richness of alchemical matter? This transition that we are currently experiencing calls for a shift away from representational technologies: from interfaces to stuff, from objects to fields of matter-in-process, from fixed concepts to processes that enact concepts. For over a decade, we as alchemists have been engaging with "bodies and materials that are always suffused with ethical, vital and material power."

The Topological Media Lab [TML] is occupied by people who are living to fuse and confuse, ready to unlearn the apparent practicality of isolated disciplines, while playfully improvising new pathways to understanding potential futures. The TML hosts an array of projects for thinking-feeling through poetry-infused-matter and breathing life into static forms—which to me is an effortlessly artistic process, and all the while inseparable from a rigorously philosophical or scientific one. Even though it might take decades for the kinds of computational-materials that we are envisioning today to be engineered from ground up at an atomic level, with what is possible today, we explore how the messy stuff of the world could become computationally charged with the potential for play: sounding, dancing, and co-performing new ways of living with or without us.

Aquaphoneia comes out of this rich ecology of experiments. In Aquaphoneia, voice and water become irreversibly fused. The installation listens to the visitors, and transmutes their utterances into aqueous voice, which then is further enriched and purified through alchemical processes.

To fully realize this liquid dream, we went to great lengths in order to fuse the messy behaviour of matter flowing throughout the installation with meticulously correlated and localized sonic behaviour. For example, the temporal texture of boiling liquid in one chamber is perceptually inseparable from the spectral entropy of simmering voices which then evaporate into a cloud of spectral mist. All of this dynamic activity is finely localized: the sounds acoustically emit



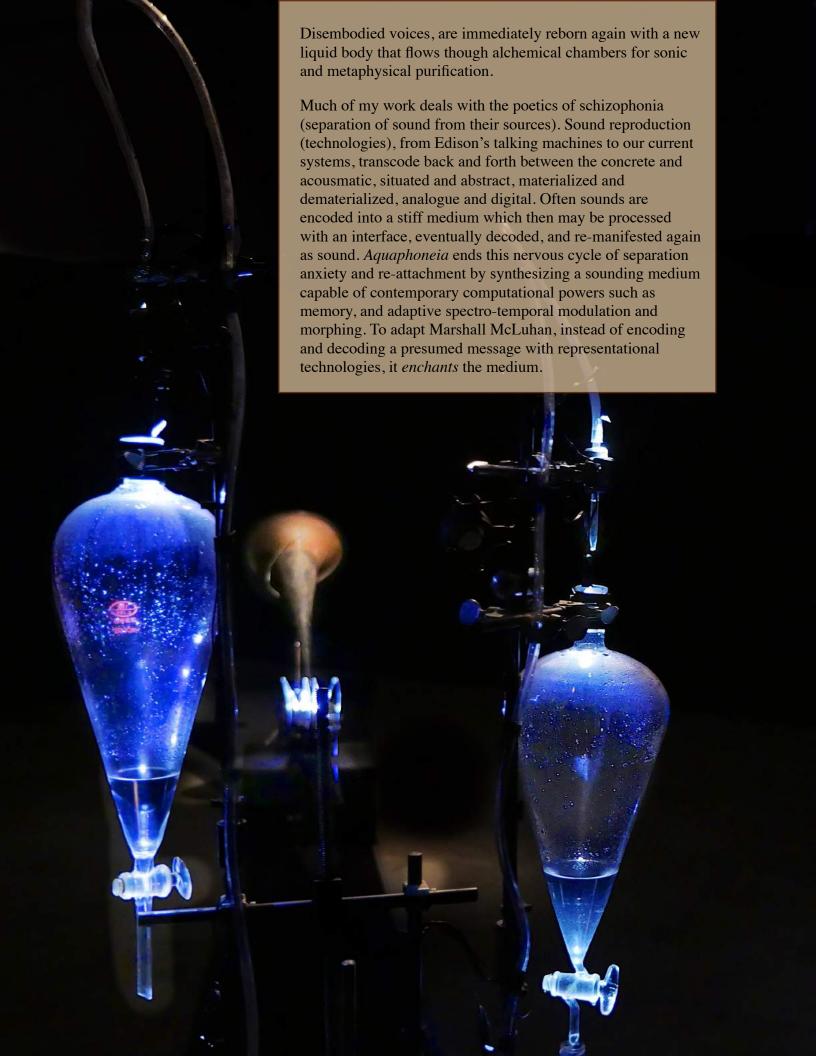


[EB]: One of the first elements that we notice in the installation is the brass horn connected to an old Edison sound recording machine, that now turns into liquid instead of wax cylinders. In fact, it came from an Edison talking machine. You repurpose an authentic artifact, but you do not fall into the trap of nostalgia, and neither into the role of collector, but you embrace innovation with a dynamic approach which excavates past media technologies in order to understand or surpass contemporary audio technologies. Where does the use of the Edison horn come from and how does it speak to your relationship with the superposition of history?

[NN]: Aquaphoneia engages the intimately recursive relationship between sounding technologies and material transmutations. Our digital audio workstations are an in fact an inclusive part of this history, this endless chain of analog transmutation between energy and matter. Under the fiction of the digital there is always the murmur of electrons and of matter-energy fields in physical transmutation. As J. Fargier writes on an early book on Nam June Paik (1989) "The digital is the analog correspondence of the alchemists' formula for gold" (translation by NN). Well, yes. The digital revolution has allowed us to shape, compute, purify, and sculpt sounds like never before... but then often at the hefty cost of a disembodying process, with interfaces that are linked to sounds only through layers upon layers of representation, far detached from resonating bodies and the sexy flux of sounding matter.

Aquaphoneia playfully juxtaposes material-computational histories of talking machines within an imaginary assemblage: sounds are fully materialized and messed with tangibly within an immediate medium very much like clay or water or perhaps more like a yet to be realized alchemico-sonic-matter. This odd assemblage orchestrates liquid sounds leveraging intuitive worldly notions—such as freezing, melting, dripping, swishing, boiling, splashing, whirling, vaporizing—and in the process borrows alchemical tactics expanding across material sciences, applied phenomenology, metaphysics, expanded materiology, and the arts. Aquaphoneia's alchemical chambers set these materials, metaphors, and forces into play against one another. After the initial ritual of offering one's voice to the assemblage, the aqueous voice starts performing for and with itself, and human visitors have the opportunity to watch and participate as they would when encountering the unpredictable order of an enchanted forest river.

It is also noteworthy that the horn resembles a black hole. The edge of the horn acts like an event horizon, separating sounds from their source-context. Sounds, once having passed the acousmatic event horizon, cannot return to the world that they once knew. Voices leaving the body of their human or non-human speaker, fall into the narrow depths of the horn, and are squeezed into spatio-temporal infinity.





[EB]: There is the tendency to think that artwork from Media Labs are stable and high tech. *Aquaphoneia* uses analog and digital technologies with a Do-It-Yourself (DIY) touch in the aesthetic. Since your lab is multidisciplinary oriented and influenced by diverse fields of knowledge, can you develop on the DIY dimension in *Aquaphoneia* under the gaze of Clint Enns—cinematographer in the experimental field of cinema—: "Adopting a DIY methodology means choosing freedom over convenience"?

[NN]: Aquaphoneia is a truly eclectic assemblage lost in time. Aquaphoneia's mixed form reflects its extremely fluid, collaborative and playful creative process. Instead of coming up with a definitive design and executing it industrially, Aquaphoneia's realization involved a much more playful process, where every little aspect of the installation—materials, sounds, software, electronics, etc.—was playfully investigated and messed with. Every little detail matters and every process, undulating back and forth between conception to execution, is an artistic process. The research-creation process leading to the works that come out of our lab are as critical to us as the final and fully produced art works. This was also true for the alchemists who, through their process, were seeking to develop new approaches for understanding the world, relating to matter, and surpassing nature.

Our research-creation activities concern experimenting with ethico-aesthetics of collective thinking-making: humans, non-humans, machines, and materials enacting and co-articulating the ever-changing material-social networks of relations which shape them. This DIY art-all-the-way approach, while providing a healthy dose of aesthetic freedom, is also an ethical one: we live with and within our designs and grow with them. That being said, we are not attached to a DIY process in the same way that some maker cultures might be. Sometimes we blindly find and repurpose something that does something cool, complicated, and mysterious and that is fantastic, sort of like philosophy of media meets cyber dumpster diving meets DIY hacker space meets cutting edge tech research meets miniMax (minimum engineering with maximum impact) meets speculative whatever...

For example, at some point we decided to gather sonic vapour in a glass dome and condense it back into drops, which were then guided to fall into the bottom of the installation. The purified drop of voice—sonic "lapis philosophorum"—was to fall into the depths of the earth beneath and shine upward like sonic gold, connecting heaven and earth. We had to execute this opus magnum inside a very small hole in the base of the installation. The water drop needed to be immediately sensed and sonified, leading to sounds coming out of the same hole, along with synchronized light. You can imagine that if we were relying on "black-boxed" technologies and ready-made techniques then this task would have seemed like a nightmare

to design and fabricate. The water drop was to fall all the way to the bottom of the hole where it would be acoustically sensed by a small apparatus that had to be acoustically isolated from everything else. Then the result of the sonification had to be pushed through the very same hole with a high degree of intelligibility and in a way that it would be seamlessly localized. Meanwhile, light had to shine through this hole in sync with the sounds but the source of light had to remain hidden.

The solution to this technical puzzle came to us effortlessly when playing around with random stuff. We found a hipster product—a little plastic horn—that was made for turning your iPod into a gramophone. Then a speaker was mounted inside of this plastic horn in order to focus sounds towards the end tip of the horn. The back of the speaker was fully covered with foam and duct tape to stop any sound from escaping anywhere except for where we wanted it to appear. A small hole was drilled into the brass pipe in the base of the installation. Our advanced hipster horn-tip-sound-laser-thing was then inserted, allowing crisp sounds to enter the brass hole and emit from it without any visible clues for the perceiver as to where the speaker was hidden. Meanwhile, a similar lighting solution was created so that in a very small footprint we can focus, direct, and bounce enough directional light in the brass pipe without ever getting in the way of the water drops.

We had to engage with this sort of detailed fabrication/
composition process throughout the whole installation in order
to come up with solutions to sense the behaviour of the
materials and liquids locally and to manifest them sonically
and visually so that there would be no separation from local
material behaviours and their computational enchantment. In
trying to do so we discovered that more often than not, there
was no ready-made solution or technique to rely on, and at the
same time we didn't have months ahead of us to engage in an
abstract design and fabrication process. We had limited hours
of collective play time to leverage and to come up with
innovative techniques that we didn't even know could exist
and that was really fun.

