

RESPIRATOR

is a musical research project aimed at the development of a multimodal hyperinstrumental performance environment for real time synthesis and processing interaction between SuperCollider and Bjørnar Habbestads electroacoustic flute. The project draws upon the rich sonic content of Habbestads hardware based electroacoustic instrument and the digital control from Jeff Careys control system MKeys.



Core challenges in the project includes the development of different forms of machine listening, customization of software dsp and a multi-modal mapping scenario for sound synthesis and signal processing. The digital side of the project is fused with Habbestads hardware based signal processing as well as the flute's acoustic sound generation and the use of mechano-acoustic control of acoustic feedback.

The project is currently seeking international collaborators for a series of development residencies leading towards a performance as well as the publication of the software and a paper describing the developmental process.

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Bjørnar Habbestad (1976) performs, improvises and creates music and sound art. Recent activity includes the norwegian premiere of Luigi Nono's "Das Atmende Klarsein" with the Danish Radio Chamber Choir, trio performances with free-jazz veterans Frode Gjerstad and Fred Lonberg-Holm, a Habbestad&Larsson sound installation for the art biennale ARTICLE and the performance of USA/USBs latest electroacoustic work at the dutch GAUDEAMUS festival. Habbestad performs in Scandinavia, Europe, Asia and the US, covering musical grounds from noise to classical contemporary, electro-acoustic and free improvised music. Has collaborated with composers in both an acoustic and electroacoustic domain. Habbestad works regulary with the chamber music ensemble POLYGON, acoustic improv unit LEMUR, USA/USB and the 10 man N-Ensemble. He is a founding member on the N-Collective, co-curator of LYDGALLERIET and programmer of the record label +3DB records. Habbestad is educated in music, art history and philosophy from Bergen, London and Amsterdam.

Jeff Carey (1972) - American composer and electro-instrumentalist - focuses on novel sound generation techniques ranging from feedback systems to non-standard synthesis. His electronic compositions are the expressions of structural possibility using composed algorithms where sound is elastic, non-linear, multi-dimensional, and part of an indivisible whole. As an electro-instrumentalist, he is dedicated to making self-built synthesis software a viable live performance instrument: no editing and no non-realtime operations. His music has been performed at galleries and festivals in Europe and the US . Carey builds custom software instruments for musicians and has given lectures on SuperCollider 3 at Peabody, Princeton, STEIM, ITP/NYU, BEK, NoTAM. He has had artistic residencies at STEIM, USF and Harvestworks. Carey studied Audio Technology at American University (1994) and computer music at the Instituut voor Sonologie in the Koninklijk Conservatorium (2002). He is a founding member of the N-Collective. Careys work is supported by Maryland State Arts Council, DC Commission on the Arts and Humanities and the National Endowment for the Arts.

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