

# Catalogue

***Publications***  
***Software***  
***Creative artwork***

PerMagnus Lindborg, PhD



## Research: publications

| ID | Description   |
|----|---|
|    | <b>Journal guest editor</b>   |
| 1  | Lindborg PM & Styles S (2016, May). Proceedings of Si15, 2nd International Symposium on Sound and Interactivity. Array, special issue 2016 (Haworth, ed.). URL <a href="http://www.computermusic.org/media/documents/array/arraySi15.pdf">http://www.computermusic.org/media/documents/array/arraySi15.pdf</a>  |
| 2  | Lindborg PM (2014, Oct.). Special Issue on Sound Art and Interactivity in Singapore: SI13 and More. eContact, special issue (Chippewa, ed.). URL <a href="http://cec.sonus.ca/econtact/16_2/">http://cec.sonus.ca/econtact/16_2/</a> .  |
|    | <b>Book chapters</b>  |
| 3  | Lindborg PM (2017, abstract accepted, in preparation). "Restaurants: A Case of Archetypal Multimodal Environments". Chapter in <i>Perception-Driven Approaches to Urban Assessment and Design</i> (Aletta, Xiao, eds.). IGI Global. [refereed]  |
| 4  | Lindborg PM (2010). "Virtual instruments and sonic space design". In Koh, Joyce Beetuan (editor): <i>On the String</i> , Program Booklet. Singapore Arts Festival 2010. [invitation]  |
| 5  | Lindborg PM (2009). "Sound art and interactive design". In Singapore Voices, Exhibition Catalogue. NTU Art & Heritage Museum. [editor reviewed]   |
| 6  | Lindborg PM (2008). "Messiaen and the idea of joie parfaite." In Koh, Joyce Beetuan (editor): <i>Messiaen Day 2008 Program Booklet</i> . SOTA, Singapore. [invitation] URL  |
| 7  | Lindborg PM (2008). "About TreeTorika: Rhetoric, CAAC and Mao". Chapter in Bresson, J., Agon C. & Assayag G. (eds): <i>OM Composer's Book #2</i> . Éditions Delatour France / IRCAM - Centre Pompidou, ISBN 978-2-84426-399-5 / 2-7521-0051-5, p. 95-116. <a href="http://recherche.ircam.fr/equipes/repmus/OMBook/">http://recherche.ircam.fr/equipes/repmus/OMBook/</a> [editor reviewed]   |
| 8  | Lindborg PM (2003). "Leçons : an Approach to a System for Machine Learning, Improvisation and Music Performance". Chapter in Wiil, U. K. (2004). <i>Computer Music Modeling and Retrieval</i> . International Symposium, CMMR 2003. LIRMM, CNRS, Université de Montpellier-2, Aalborg University 2003. Lecture Notes in Computer Science , LNCS volume 2771. Springer Verlag, ISSN 0302-9743, ISBN 3-540-20922-0, 2004. URL <a href="https://dr.ntu.edu.sg/handle/10220/39702">https://dr.ntu.edu.sg/handle/10220/39702</a> [editor reviewed] |
|    | <b>Journal articles, refereed</b>   |
| 9  | Lindborg PM (in preparation). "On sound installations in public spaces". SAEMUS Journal (on editor's invitation)  |
| 10 | Lindborg PM (in preparation). "Perceptual effects of audio quality on spatial image".   |
| 11 | Lindborg PM (in review). "Kundera's voices: acoustic and rhetoric metaphors in La Lenteur". <i>Musica Humana</i> .  |
| 12 | Lindborg PM, Bull R, et al. (in preparation). "How noisy is the Singapore kindergarten classroom and does it matter?"   |
| 13 | Lindborg PM & Friberg AK (2016, Dec). "Personality Traits Bias the Perceived Quality of Sonic Environments". <i>Applied Sciences, Special Issue on Soundscapes</i> . Appl. Sci. 2016, 6(12), 405; doi:10.3390/app6120405. URL <a href="http://www.mdpi.com/2076-3417/6/12/405/">http://www.mdpi.com/2076-3417/6/12/405/</a>   |

| ID | Description   |
|----|---|
| 14 | Lindborg PM (2016, Sep.). "A taxonomy of sound sources in restaurants". <i>Applied Acoustics</i> 110C, DOI 10.1016/j.apacoust.2016.03.032. URL <a href="http://www.sciencedirect.com/science/article/pii/S0003682X16300652">http://www.sciencedirect.com/science/article/pii/S0003682X16300652</a>  |
| 15 | Lindborg PM (2016, Aug.). "Interactive Sonification of Weather Data for The Locust Wrath, a Multimedia Dance Performance". <i>Leonardo</i> , MIT Press. doi: 10.1162/LEON_a_01339, URL <a href="http://www.mitpressjournals.org/doi/abs/10.1162/LEON_a_01339#">http://www.mitpressjournals.org/doi/abs/10.1162/LEON_a_01339#</a>  |
| 16 | Lindborg PM (2016, July). "Porous emerald". <i>Tropical Lab Art Magazine, Issue 05</i> "Fictive Dreams", eds. M Prvecki & V Puroshothaman. LaSalle College of the Arts. (on editor's invitation)  |
| 17 | Lindborg PM & Koh JBT (2016, May). "About When We Collide: a generative and collaborative surround sound installation". In Lindborg & Styles (eds.) Proceedings of Si15 2nd International Symposium on Sound and Interactivity. <i>Array</i> , special issue 2016. URL <a href="http://www.computermusic.org/page/29">http://www.computermusic.org/page/29</a>  |
| 18 | Lindborg PM & Friberg AK (2015, Dec.) Colour Association with Music Is Mediated by Emotion: Evidence from an Experiment Using a CIE Lab Interface and Interviews. <i>PLoS ONE</i> 10(12): e0144013. doi:10.1371/journal.pone.0144013. URL <a href="http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0144013">http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0144013</a> .   |
| 19 | Lindborg PM (2015, May). "Psychoacoustic, Physical, and Perceptual Features of Restaurants: A Field Survey in Singapore". <i>Applied Acoustics</i> 92, 47-60. DOI: 10.1016/j.apacoust.2015.01.002. <a href="http://www.sciencedirect.com/science/article/pii/S0003682X15000031">http://www.sciencedirect.com/science/article/pii/S0003682X15000031</a>  |
| 20 | Lindborg PM (2014, Oct.). "Sound Art Singapore: Conversation with Pete Kellock, Zul Mahmod and Mark Wong". In <i>eContact! 16.2</i> (Lindborg PM, Guest Editor). <a href="http://cec.sonus.ca/econtact/16_2/lindborg_singapore.html">http://cec.sonus.ca/econtact/16_2/lindborg_singapore.html</a>  |
| 21 | Lindborg PM (2010). "Singapore Voices: an interactive installation about languages to (re) (dis)cover the intergenerational distance". <i>IM: Interactive Media. Issue 6</i> : Special issue on 'Performance'. National Academy of Screen and Sound (NASS), Australia. ISSN 1833-0533. Available online at <a href="http://www.mcc.murdoch.edu.au/nass/issue6/pdf/nass-im6-performance-article-04-lindborg.pdf">http://www.mcc.murdoch.edu.au/nass/issue6/pdf/nass-im6-performance-article-04-lindborg.pdf</a> .  |
| 31 | Lindborg PM (2008). "Reflections on aspects of music interactivity in performance situations". In Chippewa, J. (ed): <i>eContact 10.4</i> , October 2008 ("Live / Improvisation / Interactivity"). Canadian Electroacoustic Community. URL <a href="http://cec.sonus.ca/econtact/10_4/lindborg_interactivity.html">http://cec.sonus.ca/econtact/10_4/lindborg_interactivity.html</a> (December 2010).   |
| 32 | <b>Theses</b>   |
| 33 | Lindborg PM (2015, Dec.). <i>Sound perception and design in multimodal environments</i> . Printed by US-AB, 250 copies, 326 pages in all (Comprehensive summary and seven articles). Dissertation for the degree teknologie doktor (Doctor of Technology, a.k.a. PhD in Technology), KTH Royal Institute of Technology, Stockholm, Sweden. Opponent: Daniel Västfjäll. Research supervisor: Anders K. Friberg. URL <a href="http://urn.kb.se/resolve?urn=urn:nbn:se:kth:diva-177271">http://urn.kb.se/resolve?urn=urn:nbn:se:kth:diva-177271</a> . Slides for viva voce [public defence] available at <a href="https://www.researchgate.net/profile/Permagmus_Lindborg">https://www.researchgate.net/profile/Permagmus_Lindborg</a> . DOI: 10.13140/RG.2.1.3004.1685. |
| 34 | Lindborg PM (2003, Oct.). <i>Le dialogue musicien-machine : Aspects des systèmes d'interactivité musicale</i> . Mémoire de DEA (mention 'Très Bien'/Cum Laude) de musique et musicologie du XXe siècle (101 pages). Research Director: Marc Battier. Université de Paris IV Sorbonne, France. DOI: 10.13140/RG.2.1.3006.0882. URL <a href="http://bit.ly/1ZFXqAp">http://bit.ly/1ZFXqAp</a> .   |
| 54 | <b>Conference keynote</b>   |

| ID | Description   |
|----|---|
| 55 | Lindborg PM (2016, Nov.). "Sound in Space: On Data Sonification and Urban Soundscape". Keynote at Volume 2 Symposium, School of Arts, Design and Architecture, Aalto University, Finland. URL <a href="https://volumesymposium.wordpress.com/">https://volumesymposium.wordpress.com/</a> . Also graduate workshop and sound installation pre-view (Pacific Bell Tower). Presentation slides at URL <a href="https://www.academia.edu/30104296/Sound_in_Space_On_Data_Sonification_and_Urban_Soundscape_slides">https://www.academia.edu/30104296/Sound_in_Space_On_Data_Sonification_and_Urban_Soundscape_slides</a> .                       |
| 35 | <b>Conference papers (refereed proceedings)</b>   |
| 36 | Lindborg PM & Liu DY (2015, July). "Locust Wrath: an iOS Audience Participatory Auditory Display". Proceedings of the 21th International Conference on Auditory Display (ICAD 2015), p. 125-132. Vogt K, Andreopoulou A & Goudarzi V (eds.). Institute of Electronic Music and Acoustics (IEM), University of Music and Performing Arts Graz (KUG), Austria. ISBN: 978-3-902949-01-1. URL <a href="https://smartech.gatech.edu/bitstream/handle/1853/54117/ICAD%20Proceedings%2015-Lindberg.pdf">https://smartech.gatech.edu/bitstream/handle/1853/54117/ICAD%20Proceedings%2015-Lindberg.pdf</a> [8 p., double-blind peer review full paper] |
| 37 | Lindborg PM & Kwan NAK (2015, May). "Audio Quality Moderates Localisation Accuracy: Two Distinct Perceptual Effects?". Proceedings of the 138th Convention of the Audio Engineering Society, May 2015, Warsaw, Poland. AES #9313. DOI: 10.13140/RG.2.1.3587.8565. URL <a href="http://www.aes.org/e-lib/browse.cfm?elib=17737">http://www.aes.org/e-lib/browse.cfm?elib=17737</a> . [10 p., double-blind peer review full paper]  |
| 38 | Lindborg PM (2014). "Colour Association to Sound: A Perceptual Experiment using a CIELab Haptic Response Interface and the Jyväskylä Film Music Set." Proceedings of Sound and Music Computing Sweden 2014, p. 3-4. Stockholm, Sweden, 4-5 Dec. 2014. URL <a href="http://smcsweden.se/proceedings/SMCSweden2014_Proceedings.pdf">http://smcsweden.se/proceedings/SMCSweden2014_Proceedings.pdf</a> [2 p., double-blind peer review extended abstract]  |
| 39 | Lindborg PM & Lim, M.J.Y. (2013, July). "Design of an Interactive Earphone Simulator and Results from a Perceptual Experiment". Proceedings of the Sound and Music Computing Conference 2013 (SMC 2013), Stockholm, Sweden. July 2013, p. 74-79. ISBN 978-91-7501-831-7. Logos Verlag, Berlin. URL <a href="http://smcnetwork.org/node/1775">http://smcnetwork.org/node/1775</a> [6 p., double-   |
| 40 | Lindborg PM (2013, July). "Skalldans, an audiovisual improvisation framework". Proceedings of the Sound and Music Computing Conference 2013 (SMC 2013), Stockholm, Sweden. July 2013, p. 415-418. Logos Verlag, Berlin. ISBN 978-3-8325-3472-1. URL <a href="http://smcnetwork.org/node/1835">http://smcnetwork.org/node/1835</a> [4 p., double-blind peer review full paper]   |
| 41 | Lindborg PM (2013, June). "Physiological measures regress onto acoustic and perceptual features of soundscapes". Proceedings of the 3rd International Conference on Music Emotion (ICME3). Jyväskylä, Finland, 11th - 15th June 2013. Geoff Luck & Olivier Brabant (Eds.). University of Jyväskylä, Department of Music. ISBN 978-951-39-5250-1. URL <a href="https://jyx.jyu.fi/dspace/handle/123456789/41614">https://jyx.jyu.fi/dspace/handle/123456789/41614</a> . [editor review full paper]   |
| 42 | Aw M, Lim CS & Lindborg PM (2013, July). "SmartDJ, An Interactive Music Player for Music Discovery by Similarity Comparison". Proceedings of the Sound and Music Computing Conference (SMC). Stockholm, Sweden. p. 776-781. Logos Verlag, Berlin. ISBN 978-3-8325-3472-1. <a href="http://smcnetwork.org/node/1836">http://smcnetwork.org/node/1836</a> [6 p., double-blind peer review full paper]   |
| 43 | Lim MJY & Lindborg PM (2013, June). "How Much does Quality Cost? Listening to Music with Earphones on Buses and Trains". Proceedings of the 3rd International Conference on Music Emotion (ICME3). Jyväskylä, Finland. June 2013. <a href="https://jyx.jyu.fi/dspace/handle/123456789/41609">https://jyx.jyu.fi/dspace/handle/123456789/41609</a> [6 p., editor review full paper]  |
| 44 | Lindborg, PerMagnus (2012). "How fun is this? A pilot questionnaire study to investigate visitors' experience of an interactive sound installation". Poster at International Conference on Music Perception and Cognition (ICMPC). Thessaloniki, Greece, 23-28 July 2012. DOI: 10.13140/RG.2.1.3100.5206. URL <a href="http://bit.ly/1JRKH6V">http://bit.ly/1JRKH6V</a>   |

| ID | Description   |
|----|---|
| 45 | Lindborg PM (2012, June). "Correlations Between Acoustic Features, Personality Traits and Perception of Soundscapes". Proceedings of the 12th International Conference on Music Perception and Cognition (ICMPC) and 8th Triennial Conference of the European Society for the Cognitive Sciences of Music (ESCOM). Thessaloniki, Greece, 23-28 July 2012. Proceedings edited by Emiliios Cambouropoulos, Costas Tsourgas, Panayotis Mavromatis, Costas Pasiadis, ISBN 960-99854-1-7. <a href="http://icmpec-escom2012.web.auth.gr/sites/default/files/papers/594_Proc.pdf">http://icmpec-escom2012.web.auth.gr/sites/default/files/papers/594_Proc.pdf</a> [10 p., double-blind peer review abstract] |
| 46 | Lindborg PM (2012, June). "Correlates between personality traits and physiological and perceptual responses to soundscapes". Electracoustic Music Studies conference 2012 (EMS). Stockholm, Sweden. 11-16 June 2012. URL <a href="http://www.ems-network.org/ems12/abstract.html">http://www.ems-network.org/ems12/abstract.html</a> [double-blind peer review abstract]  |
| 47 | Lindborg PM & Koh JBT (2011, August). "Multidimensional spatial sound design for 'On the String'". Proceedings of the International Conference of Computer Music (ICMC), ISBN 978-0-9845274-0-3. University of Huddersfield, UK. July 2011. URL <a href="http://hdl.handle.net/2027/spo.bbp2372.2011.014">http://hdl.handle.net/2027/spo.bbp2372.2011.014</a> [4 p., double-blind peer review full paper]   |
| 48 | Lindborg PM (2010). "Perception of emotion portrayal in cartoons by visually and aurally oriented people". Proceedings of the 11th International Conference on Music Perception and Cognition (ICMPC11). Seattle, Washington, USA. Demorest S.M., Morrison S.J., Campbell P.S., editors. ISBN 1-876346-62-0. URL <a href="https://dr.ntu.edu.sg/handle/10220/6299">https://dr.ntu.edu.sg/handle/10220/6299</a> [8 p., double-blind peer review abstract]  |
| 49 | PerMagnus Lindborg (2009, Mar.). "Singapore Voices: (re)(dis)covering the intergenerational distance". Presentation at Conference of the American Comparative Literature Association (ACLA) 2009, Harvard University (Cambridge), United States. 27 March 2009. <a href="http://www.acla.org">http://www.acla.org</a> [session chair invitation]  |
| 50 | Koh JBT & Lindborg PM (2008). "Project Time revisited: thoughts on skin therapy, urban planning and Singaporean Angst". Proceedings of 14th International Symposium of Electronic Art. ISEA2008 Pte Ltd, ISBN 978-981-08-0768-9. URL <a href="http://bit.ly/1SY8EuY">http://bit.ly/1SY8EuY</a> [2 p., double-blind peer review abstract]  |
| 51 | Lindborg PM (2007). "Preparing for TreeTorika: Computer-assisted analysis of Mao's oratory". In C. Spyridis, A. Georgaki, G. Kouroupetroglou & C. Anagnostopoulou (Eds): Proceedings of the 4th Sound and Music Computing Conference (SMC07). 11-13 July 2007, Lefkada, Greece, ISBN 978-960-6608-75-9. URL <a href="http://smcnetwork.org/node/1148">http://smcnetwork.org/node/1148</a> [8 p., double-blind peer review full paper]   |
| 52 | PerMagnus Lindborg (2007). "Composers' Rights in a Digital World". Transposition and Vietnam Institute of Musicology Co-arranged Conference for Composers' Rights: "Discussion About Intellectual Property Rights and Copyrights in Music Field", Hanoi, Vietnam, 18 December 2007. Organiser: Geir Johnson. URL <a href="http://bit.ly/1PkPtWi">http://bit.ly/1PkPtWi</a> [4 p., organiser review abstract]  |
| 53 | Lindborg PM (2003, Jan.). "Frédéric Voisin, à la recherche d'une Neuromuse" (partie de DEA). DOI: 10.13140/RG.2.1.4775.5603. URL <a href="http://bit.ly/1nsQ9Tj">http://bit.ly/1nsQ9Tj</a> .  |
|    |   |
| 56 | <b>Conference contributions (other)</b>   |
| 57 | Lindborg PM (2014, Oct.). "Perceptualising the Climate in Times of Locust Wrath". Demo-lecture at Liquid Architecture 2014. LaSalle College of the Arts, Singapore. URL <a href="http://www.lasalle.edu.sg/events/liquid-architecture-singapore-2014">http://www.lasalle.edu.sg/events/liquid-architecture-singapore-2014</a> [invitation]  |

| ID | Description  |
|----|--|
| 58 | Lindborg PM (2014, Aug.). "Colour Association to Sound". Proceedings of 13th International Conference on Music Perception and Cognition joint with 5th Conference for the Asia-Pacific Society for Cognitive Sciences of Music. (ICMPC-APSCOM 2014). Yonsei University, Seoul. <a href="http://permagnus.org/pm/research/CAS/Lindborg-CAS-ICMPC.html">http://permagnus.org/pm/research/CAS/Lindborg-CAS-ICMPC.html</a> [double-blind peer review abstract]   |
| 59 | Lindborg PM & Liong, Shie-Yui (2014, Jan.). "Hearing is Believing: Interactive Sonification of Weather Data from South-East Asia 1960-2099." Presentation at Environmental Visions Symposium, NTU. <a href="http://www.environmentalvisions.info/">http://www.environmentalvisions.info/</a> [invitation based on abstract]  |
| 60 | Lindborg PM (2013, July). "Acoustic and perceptual features of eating-places in Singapore." Poster at Joint AESOP/ACSP Congress Dublin, July 2013. URL <a href="http://aesop-acspdublin2013.com">http://aesop-acspdublin2013.com</a> [peer review abstract].   |
| 61 | Lindborg PM (2012, Oct.). "Skalldans, an audiovisual performance; demo and under-the-hood". Visual Music Symposium, ADM, NTU, Singapore. 13-14 October, <a href="http://bit.ly/1nt9NyD">http://bit.ly/1nt9NyD</a> [invitation]   |
| 62 | Lindborg PM (2012, Jun.). "Soundscape perception and personality". Presentation at International Symposium on Urban Soundscapes. Stockholm City Museum, co-organised by Stockholm University. 15 June 2012. URL <a href="http://www.stadsmuseet.stockholm.se">http://www.stadsmuseet.stockholm.se</a> [invitation]   |
| 63 | Koh JBT & Lindborg PM (2010, Nov.). "About 'On the String'". Presentation at Ircam Forum, Paris, France, <a href="http://www.ircam.fr">http://www.ircam.fr</a> . 21 November 2011. [invitation]  |
| 64 | PerMagnus Lindborg (2008, Jul.). "Particular Assembly: On the Sonification of Voice Analysis for an Interactive Installation on the Theme of Musicality in Political Speech". ISEA08 (International Symposium for Electronic Art), Singapore, 26 July 2008. URL <a href="http://www.isea2008singapore.org">http://www.isea2008singapore.org</a> [double-blind peer review abstract]  |
| 65 | <b>Catalogues</b>  |
| 66 | Lindborg PM et al. (2015). Si15 poster, SI15 flyer. Printed. Texts by Lindborg (Symposium Chair), design by Elizabeth Djong, foreword by Vibeke Sorensen, contributions by committee members, and others. URL <a href="http://soundislands.com/si15">http://soundislands.com/si15</a> .  |
| 67 | Lindborg PM et al. (2013). SI13 Booklet. Printed catalogue with texts by Lindborg (Editor and Symposium Chair), design by Elena Cheong, foreword by Vibeke Sorensen, and texts by the authors of 29 artworks and papers. URL <a href="http://soundislands.com/si13">http://soundislands.com/si13</a> .   |
| 68 | <b>Technical reports</b>   |
| 69 | Lindborg PM (2011, Jan.). "3D sound research: state of the art". Internal Report for the School of Art, Design, and Media, NTU. DOI: 10.13140/RG.2.1.1105.5447. URL <a href="http://bit.ly/1PlaSP7">http://bit.ly/1PlaSP7</a>  |
| 70 | Lindborg PM (2011, Dec.) "Acoustic measurements of ICMG space at Innovation Centre with analysis and recommendations for fittings". DOI: 10.13140/RG.2.1.4251.2724. URL <a href="http://bit.ly/1JUkSmu">http://bit.ly/1JUkSmu</a>  |
| 71 | <b>Invited talks, panels, public speeches, and special events</b>  |
| 72 | Lindborg PM, Liew KM, Mihaly J et al. (2016, Dec.). "On Urban Sound". 6 Jan. 2017. Moderating a panel discussion. Organised as part of NTU-CCA's public programme <i>Incomplete Urbanism: Attempts of Critical Spatial Practice</i> ( <a href="http://ntu.ccasingapore.org/exhibitions/incomplete-urbanism/">http://ntu.ccasingapore.org/exhibitions/incomplete-urbanism/</a> ). Presentation slides at UR <a href="https://www.academia.edu/30780614/Perceptual_characteristics_of_soundscape_and_smellscape_at_Tiong_Bahru_market">https://www.academia.edu/30780614/Perceptual_characteristics_of_soundscape_and_smellscape_at_Tiong_Bahru_market</a> |

| ID | Description  |
|----|--|
| 73 | Lindborg PM, Liew KM, Mihaly J (2016, Dec.). "Incomplete City Walks: Coffee Shops and Hawker Centres". Guided structured sensory walk / soundwalk at early morning Tiong Bahru Market. 3 Dec. 2016. Organised as part of NTU-CCA's public programme <i>Incomplete Urbanism: Attempts of Critical Spatial Practice</i> ( <a href="http://ntu.ccasingapore.org/exhibitions/incomplete-urbanism/">http://ntu.ccasingapore.org/exhibitions/incomplete-urbanism/</a> ). Event page at URL <a href="https://www.facebook.com/events/371326989867154">https://www.facebook.com/events/371326989867154</a> . |
| 74 | Lindborg PM (2016, Nov.). "Is Aesthetic Data Sonification Sound Art?". Guest lecture at Music Department, Faculty of Arts, University of Hong Kong, 28 November 2016.  |
| 75 | Lindborg PM (2016, Nov.). "Sound in Space: On Data Sonification, Urban Soundscape, and Sound Art". Demo-lecture at Yale-NUS College, Singapore. 14 November 2016. Also preview of "Pacific Bell Tower", interactive sound installation sniffing live internet data, 11-14 November 2016. Presentation slides at URL <a href="https://www.academia.edu/29825903/Sound_in_Space_On_Sonification_Urban_Soundscape_and_Sound_Art">https://www.academia.edu/29825903/Sound_in_Space_On_Sonification_Urban_Soundscape_and_Sound_Art</a> .  |
| 76 | Lindborg PM (2015, 6 Nov.). "Introducing Nobel Laureate Svetlana Aleksievitch", at Swedish Embassy, Singapore, yearly meeting of academics & guests. URL <a href="https://nanyang.academia.edu/PerMagnusLindborg/Essays">https://nanyang.academia.edu/PerMagnusLindborg/Essays</a>   |
| 77 | Lindborg PM (2015, 14 Oct.). "Freq_out". Presentation at Centre of Contemporary Arts, Singapore. Slides: URL <a href="https://www.academia.edu/20346372/Freq_out">https://www.academia.edu/20346372/Freq_out</a>   |
| 78 | Lindborg PM (2014, 7 Dec.) "Introducing Nobel Laureate Patrick Modiano", Swedish Embassy, Singapore, at yearly meeting of academics & guests. URL <a href="https://nanyang.academia.edu/PerMagnusLindborg/Essays">https://nanyang.academia.edu/PerMagnusLindborg/Essays</a>  |
| 79 | Lindborg PM (2014, 15 Nov.). "Presentation of works from ICMC-SMC in Athens". Composer Society Singapore. Slides: URL <a href="http://bit.ly/239Lqqd">http://bit.ly/239Lqqd</a>  |
| 80 | Lindborg PM (2013, 4 Dec.). "Munro and Nobel, Ideals and Inspiration", Swedish Embassy, Singapore, at yearly meeting of academics & guests. URL <a href="https://nanyang.academia.edu/PerMagnusLindborg/Essays">https://nanyang.academia.edu/PerMagnusLindborg/Essays</a>  |
| 81 | Lindborg PM (2013, 17 Oct.). "Extended role of the artist", Kolmio project, Nordic Music Days, Helsinki, Finland. Panel member at seminar.   |
| 82 | Lindborg PM (2013, Jun.). "Report from 3rd International Conference of Music and Emotion (ICME3): Focus on Physiology". Slides: URL <a href="http://bit.ly/1Jc4vkW">http://bit.ly/1Jc4vkW</a>  |
| 83 | Lindborg PM (2012, 18 Feb.). "On Interactive Sound Installations". Public talk at the Museum of Modern Art, Stockholm, Sweden.   |
| 84 | Lindborg PM (2012, 6-9 Sep.). "On Interactive Sound Installations" and "On Computer-Assisted Composition". Invited guest lectures at the Graduate School of Music Technology, Chiao-Tung University, Taiwan.   |
| 85 | Lindborg PM (2012, Oct.). "Lecture-demo: On interactive music performance". Centre for Multi-Media Research (CMMR), NUS, Singapore.  |
| 86 | Lindborg PM (2012, 28 Mar.). "Interactive Sound Installations: Design and Perception". ADM Research Colloquium, NTU, Singapore.  |
| 87 | Lindborg PM (2011, 26-29 Sep.). "On Music Composition", "On Music Perception", Invited guest lectures at the Music Conservatory, University of Tromsø, Norway. The visit also included individual composition tutoring and a concert performance.  |
| 88 | Lindborg PM (2011, 13 Apr.). "Perception of Emotion in Sonic Environments: Cartoons and sound installations". WKWSCI Research Seminar Series, NTU, Singapore.  |
| 89 | Lindborg PM (2010, 12 Feb.). "Composing the Compositions". LaSalle College of the Arts, Singapore.   |



| ID | Description   |
|----|---|
| 90 | Lindborg PM (2007-8). Norway - Vietnam "Transposition" cultural exchange. Hochiminh City, Conservatory of Music. Series of Lectures and Workshops in music composition, sound editing, field recording techniques, and interactive music. (17-19 May 2007, 11-15 Oct. 2007, 4-5 Apr. 2008, 15-17 May 2008). |

## Innovative software

| ID | Description   |
|----|---|
|    | <b>iOS apps</b>   |
| 1  | Lindborg PM with Liu YD (2015). <i>Locust Wrath</i> , app for iOS. Apple iTunes. Lindborg conceived the software, and co-designed GUI and interaction logic. URL <a href="https://itunes.apple.com/us/app/locust-wrath/id960126072?mt=8">https://itunes.apple.com/us/app/locust-wrath/id960126072?mt=8</a>  |
| 2  | Apopi Pte Ltd (Skoric M, Lindborg PM, Yong RZ) with Liu YD and Park L (2013). <i>K-pop generator and K-pop generator Lite</i> , apps for iOS. Apple iTunes. Lindborg contributed to concept, performed research and music information retrieval (MIR), and contributed to GUI design. <a href="https://www.appannie.com/apps/ios/publisher/apopi-pte-ltd/">https://www.appannie.com/apps/ios/publisher/apopi-pte-ltd/</a>   |
|    | <b>Max apps (self-published)</b>  |
| 3  | Lindborg PM (2010-2013). Various apps (Max stand-alones, patchers, abstractions), including <i>Bark-Bands Calculator</i> , <i>Binaural Beats</i> , <i>Time-Level Trading</i> , <i>Masking Level Difference</i> , <i>TwiceAsLoud_StevensTest</i> , <i>Fletcher-Mundson Selftest</i> , <i>Clicks Perceptual Threshold</i> , <i>RoomAcousticsCalculator</i> , <i>RT60estimator</i> , <i>TimeDelayGapTester</i> , <i>pm.Madde</i> , <i>VoiceRangeProfile</i> etc. URL <a href="http://permagnus.org/pm/software/index.html">http://permagnus.org/pm/software/index.html</a> . |

*Lindborg, Software*

## Research: creative artwork

| ID                              | Title                     | Description  | Year | Performances /Exhibitions /Screenings /Publications   |
|---------------------------------|---------------------------|--|------|---|
| <b>Physical sound sculpture</b> |                           |  |      |   |
| 1                               | <b>Pacific Bell Tower</b> | Lindborg PM (2016, forthcoming). Sculptural real-time sonification of Internet seismic data. System consisting of software receiving recent activity in the 'ring of fire'; sonification through physical modelling of virtual bells and spatialisation; four hyperdirectional loudspeakers; sound reflecting off the walls. Mixed materials.  | 2016 | Supported by ADM Exhibition Support Grant 2016. Pre-view of work-in-progress at Yale-NUS College Foyer, Singapore, 11–14 November 2016.   |
| 2                               |                           |  |      | <i>Pre-view at Aalto University, Finland, 22–25 November 2016.</i>  |
| 3                               | <b>LW24</b>               | Lindborg PM (2014-15). Sculptural frontal auditory display. System consisting of 24 channels synchronised fixed-media playback devices, pre-amplification, amplification, audio cables, suspension strings, custom-built loudspeakers, and large portable grid structure. Mixed materials.   | 2015 | National Gallery, Singapore, as standalone exhibit and as part of "In the red" performances by Arts Fission Dance Company, 4 - 7 December 2015.   |
| 4                               |                           |  | 2015 | ADM/NTU Outer Gallery, Singapore as part of "Beyond the Horizon" group show, 19 March - 25 April 2015.  |
| 5                               | <b>The Canopy (v2)</b>    | Interactive sculptural 3D sound installation. (2011-13). Lindborg PM, Koh, J.B.T & Yong, R.Z. Supported by IMI Art & Technology Grant, NTU. Project URL <a href="http://www.permagnus.org/pm/artwork/installations/TheCanopy/index.html">http://www.permagnus.org/pm/artwork/installations/TheCanopy/index.html</a> . Narrated demo slides URL <a href="https://vimeo.com/152233698">https://vimeo.com/152233698</a> . Presentation URL <a href="https://youtu.be/AYPhy8R8CM">https://youtu.be/AYPhy8R8CM</a> , example of auto-generated "audiovisual keepsake" URL <a href="https://vimeo.com/152234124">https://vimeo.com/152234124</a> . | 2013 | World Stage Design Festival, Cardiff, UK, 6-9 September 2013. <a href="http://www.wsd2013.com/">http://www.wsd2013.com/</a> [competitive blind juried festival].  |
| 6                               | <b>The Canopy</b>         |  | 2011 | International Computer Music Conference (ICMC), University of Huddersfield, UK, 31 July - 5 August 2011. [competitive blind juried festival]  |
| 7                               |                           |  | 2010 | Movement 5 in Koh JB, Lindborg PM, Stromberg D, Chian KH & Lim WW (2010). On The String, Theatre of Music. Filmclip URL <a href="https://www.youtube.com/watch?v=OCPe6Zp6e7Y">https://www.youtube.com/watch?v=OCPe6Zp6e7Y</a> |
| 8                               | <b>The Bow</b>            | Lindborg PM (2010, revised 2012). Design for a kinetic sound sculpture, with concept drawings, budget, and component specifications.   | 2012 | NA  |
| 9                               | <b>Singapore Voices</b>   | Ng BC, Lindborg PM, Yuan J & Stulemeyer R (2009). Lindborg co-developed the concept, collected the recordings, and designed the sonic interaction. See also catalogue text (Lindborg 2009). Project URL <a href="http://permagnus.org/pm/artwork/installations/SingaporeVoices/index.html">http://permagnus.org/pm/artwork/installations/SingaporeVoices/index.html</a> .  | 2009 | Ngee An Polytechnic, August 2010. Exhibited (one month).  |
| 10                              |                           |  | 2009 | NTU, touring display at four different locations during eleven months, August 2009 - June 2010.   |

Lindborg, Creative artwork (2007 – present)

| ID | Title                            | Description   | Year | Performances /Exhibitions /Screenings /Publications   |
|----|----------------------------------|---|------|---|
| 11 |                                  |   | 2009 | Conference for Endangered Languages, 3-4 March 2009, NTU. First exhibition.   |
| 12 | <b>Fixed media (CD, DVD, LP)</b> |   |      |   |
| 13 | <b>When We Collide</b>           | Lindborg PM & Koh JBT (2015). Audio-DVD. BeeperDesign [self-published]. Lindborg contributed to overall concept, prepared audio files, wrote the interactive audio code, and prepared the DVD 5.1 mastering files.  | 2015 |   |
| 14 | <b>freq_out 1.2 ∞ Skandion</b>   | Hausswolff, Carl Michael*, Lindborg PM, Grönlund T, Harding M, Kirkegaard J, LaBelle B, Nilsen BJ, Nisunen P, Petursson F, Pomassl F, Tankred K, Thirwell J, Urstad M & Winderen J (2015). LP. Ash International #12.0. URL <a href="http://www.ashinternational.com/editions/ash_120_freq_out_12_skandion.html">http://www.ashinternational.com/editions/ash_120_freq_out_12_skandion.html</a>   | 2014 |   |
| 15 | <b>On the String</b>             | Koh JBT, Fu M & Tan F, Lindborg PM (2011) Monograph DVD of On the String. Theatre of Music. Multimedia performance. Lindborg did audio postproduction & mastering for DVD with 5.1 surround sound. Commissioned by ArtsAlive Collection National Library Board, Singapore. URL <a href="http://bit.ly/1NfTN81">http://bit.ly/1NfTN81</a> , <a href="http://bit.ly/1U6lmoH">http://bit.ly/1U6lmoH</a>  | 2011 | View at URL <a href="https://vimeo.com/153667328">https://vimeo.com/153667328</a> (whole), and URL <a href="https://vimeo.com/153662889">https://vimeo.com/153662889</a> (trailer). |
| 16 | <b>Nosferatu</b>                 | Lindborg PM, Lim D & Kwong J (2009). Electroacoustic music for Murnau's film classic (92 min.). Moving images by (Murnau 1927). BeeperDesign [self-published]. Commissioned by NTU/SCI for MonsterMania Film Festival. Lindborg did concept, composition, ensemble coaching, recordings, post-production and mastering for DVD. (Lim & Kwong provided assistance to composition and ensemble coaching). With IronEgg and Samuel Wong. Project URL <a href="http://permagnus.org/pm/artwork/multimedia/Nosferatu/index.html">http://permagnus.org/pm/artwork/multimedia/Nosferatu/index.html</a> . Short excerpt URL <a href="https://youtu.be/JEc1kD41C44">https://youtu.be/JEc1kD41C44</a> | 2010 | ADM Auditorium, Singapore. 10 January 2010. View at URL <a href="https://vimeo.com/153338895">https://vimeo.com/153338895</a> (p/w "kayak")   |
| 17 |                                  |   | 2009 | Golden Village Cinemas, Vivo City, Singapore. 23 Nov. 2009. First screening.  |
| 18 | <b>Dreamlands Burn</b>           | Hausswolff, Carl Michael*, Lindborg PM, Grönlund T, Harding M, Kirkegaard J, LaBelle B, Nilsen BJ, Nisunen P, Petursson F, Pomassl F, Tankred K, Thirwell J, Urstad M & Winderen J (2007). CD featuring freq-out 3 and freq-out 4. Part of Catalogue for the Nordic Art Show 2006 at the Múcsarnok   Kunsthalle, Budapest, Hungary. Article & photos. ISBN 978-963-9506-15-2. URL <a href="http://www.worldcat.org/title/dreamlands-burn-nordic-art-show-2006/oclc/642642873">http://www.worldcat.org/title/dreamlands-burn-nordic-art-show-2006/oclc/642642873</a> ,   | 2007 |   |
| 19 | <b>Sound installations</b>       |   |      |   |
| 20 | <b>Freq-Out 12</b>               | Hausswolff, Carl Michael, Lindborg PM, Grönlund T, Harding M, Kirkegaard J, LaBelle B, Nilsen BJ, Nisunen P, Petursson F, Pomassl F, Tankred K, Thirwell J, Urstad M & Winderen J (2016). Site-specific collaborative sound installations, created for the acoustics and context of the location ( <a href="http://www.freq-out.org">http://www.freq-out.org</a> ).   | 2016 | For TONSPUR festival, Vienna, Austria.  |
| 21 | <b>Freq-Out 11</b>               | Hausswolff, Carl Michael, Lindborg PM, Grönlund T, Harding M, Kirkegaard J, LaBelle B, Nilsen BJ, Nisunen P, Petursson F, Pomassl F, Tankred K, Thirwell J, Urstad M & Winderen J (2016). Site-specific collaborative sound installations, created for the acoustics and context of the location ( <a href="http://www.freq-out.org">http://www.freq-out.org</a> ).   | 2016 | Sound installation on the Internet (in development)   |

Lindborg, Creative artwork (2007 – present)

| ID | Title                            | Description   | Year | Performances /Exhibitions /Screenings /Publications  |
|----|----------------------------------|---|------|--|
| 22 | <b>When We Collide</b>           | Lindborg PM & Koh JBT (2015). Generative surround sound installation. With additional audio material from Stromberg D, Fasciani S, Pertout A & Shin S. Produced by JBT Koh with support from National Art Council Art, Singapore (Arts Creation grant). Lindborg contributed to overall concept, prepared audio files, and wrote the interactive audio code. See also Array article (Lindborg &Koh 2016).   | 2015 | ArtScience Museum, Singapore, 22-23 August 2015.   |
| 23 |                                  |   | 2015 | The Arts House, Singapore, 19 August 2015.   |
| 24 | <b>Locust Wrath #3</b>           | Lindborg PM & Liu YD (2015). Interactive participatory immersive auditory display with ad hoc iOS devices. Lindborg conceived the work, co-designed the system, and programmed the Max server. With support from Lindborg's Tier 1 grant. See also ICAD article (Lindborg & Liu 2015). Project URL <a href="http://permagnus.org/pm/artwork/sonifications/LocustWrath/index.html">http://permagnus.org/pm/artwork/sonifications/LocustWrath/index.html</a> .  | 2015 | National Design Centre, Singapore. Performance-installation as part of Liong, Koh, Lindborg et al (2015) Make it New: Future Feed. ArtsFission trailer URL <a href="https://youtu.be/YX7mzCX8TfE">https://youtu.be/YX7mzCX8TfE</a>   |
| 25 | <b>Locust Wrath #2</b>           | Lindborg PM (2014). 21 channel sonification of weather data 2015-55 covering the Mediterranean Basin. In four sections (60 min.) interspersed by recorded narratives read by Ålvi Lindborg-Koh. Six-channel frontal auditory display. Project URL <a href="http://permagnus.org/pm/artwork/sonifications/LocustWrath/index.html">http://permagnus.org/pm/artwork/sonifications/LocustWrath/index.html</a> .   | 2014 | Onassis Centre, Athens, Greece. Exhibited as part of the sound installation competitive selection of the International Computer Music Conference (ICMC), 21-26 September 2014. [competitive blind juried festival]   |
| 26 | <b>Freq-Out 1.2 ∞</b>            | Hausswolff, Carl Michael, Lindborg PM, Grönlund T, Harding M, Kirkegaard J, LaBelle B, Nilsen BJ, Nisunen P, Petursson F, Pomassl F, Tankred K, Thirwell J, Urstad M & Winderen J (2014). Site-specific collaborative sound installations, created for the acoustics and context of the location ( <a href="http://www.freq-out.org">http://www.freq-out.org</a> ).   | 2014 | Permanent sound installation at Skandion Clinic, Uppsala. [since Nov. 2014]  |
| 27 | <b>Freq-Out 9</b>                | Hausswolff, Carl Michael, Lindborg PM, Grönlund T, Harding M, Kirkegaard J, LaBelle B, Nilsen BJ, Nisunen P, Petursson F, Pomassl F, Tankred K, Thirwell J, Urstad M & Winderen J (2013). Site-specific collaborative sound installations, created for the acoustics and context of the location ( <a href="http://www.freq-out.org">http://www.freq-out.org</a> ).   | 2013 | Commissioned by Sonic Acts Festival / Dark Universe at Stedelijk Museum, Netherlands. 21-25 Feb. 2013.   |
| 28 | <b>Locust Wrath</b>              | Liong A, Koh, Koh JBT & Lindborg PM (2013). Multimedia performance (50 min.) with dance, surround sound, sculptures, and light. Commissioned and produced by ArtsFission Dance Company. Lindborg contributed to overall concept, wrote the sonification software, and designed the surround sound system. See also Leonardo article (Lindborg 2016). Excerpt (binaural, use headphones) <a href="https://vimeo.com/152233887">https://vimeo.com/152233887</a> . Project URL <a href="http://permagnus.org/pm/artwork/sonifications/LocustWrath/index.html">http://permagnus.org/pm/artwork/sonifications/LocustWrath/index.html</a> . | 2013 | HeluTrans Gallery, Tanjong Pagar, Singapore 27-28 September 2013 (three performances). <a href="http://www.dansing.org.sg/2013/09/12/the-locust-wrath-by-the-arts-fission-company/">http://www.dansing.org.sg/2013/09/12/the-locust-wrath-by-the-arts-fission-company/</a> , ArtsFission trailer URL <a href="https://youtu.be/lmexaPIOd4">https://youtu.be/lmexaPIOd4</a> .   |
| 29 | <b>Graviton Dance - Semantic</b> | Lindborg PM (2012-13). Interactive 3D sound installation. Project URL <a href="http://permagnus.org/pm/artwork/installations/GravitonDanceSemantic/index.html">http://permagnus.org/pm/artwork/installations/GravitonDanceSemantic/index.html</a> .   | 2013 | State Theatre, Perth, Australia, 11-17 August 2013. Exhibited as part of the sound installation program of the International Computer Music Conference (ICMC). <a href="http://icmc2013.com.au/program/installations-2/">http://icmc2013.com.au/program/installations-2/</a> [competitive blind juried festival]. Documentary video clip (low resolution!) <a href="https://youtu.be/NN4U03yzKck">https://youtu.be/NN4U03yzKck</a> |

Lindborg, Creative artwork (2007 – present)

| ID | Title  | Description  | Year | Performances /Exhibitions /Screenings /Publications   |
|----|--|--|------|---|
| 30 | <b>Graviton Dance</b>                              | Lindborg PM (2010-12). Generative 3D sound composition. Project URL <a href="http://www.permagnus.org/pm/artwork/electroacoustic/GravitonDance/index.html">http://www.permagnus.org/pm/artwork/electroacoustic/GravitonDance/index.html</a> . Sound example (arbitrary time slice), BINAURAL format: use headphones! URL <a href="https://soundcloud.com/permagnus-lindborg/gravitondance-arbitrarytimeslice-binaural-norm-3db">https://soundcloud.com/permagnus-lindborg/gravitondance-arbitrarytimeslice-binaural-norm-3db</a> . | 2012 | National Chiao Tung University, Taiwan, 1 December 2012. Adapted version, performed as part of International Workshop on Computer Music and Audio Technology (WoCMAT).  |
| 31 |  |  | 2010 | Movement 4 in Koh JB, Lindborg PM, Stromberg D, Chian KH & Lim WW (2010). <i>On The String, Theatre of Music</i> .  |
| 32 | <b>TimeTravel Explorations - Tune Installation</b> | Lindborg PM (2012). Interactive audiovisual surround sound installation. With support from Lindborg's Tier 1 grant. Project URL <a href="http://permagnus.org/pm/artwork/installations/TimeTravelExplorations/index.html">http://permagnus.org/pm/artwork/installations/TimeTravelExplorations/index.html</a>  | 2012 | National Chiao Tung University, Taiwan, 1 December 2012. Exhibited as part of International Workshop on Computer Music and Audio Technology (WoCMAT) [featured work as invited composer].   |
| 33 | <b>Freq-Out 8</b>                                  | Hausswolff CM, Lindborg PM, Thirlwell, Pétursson, Nilsen, Winderen, LaBelle, Nisunen, Grönlund, Urstad, Kirkegaard, Harding, Tankred, Pomassl. (2012). Site-specific collaborative sound installations, created for the acoustics and context of the location, URL <a href="http://freq-out.org/8/">http://freq-out.org/8/</a> .   | 2012 | At Moderna Museet Stockholm, 17-19 Feb. 2012. Commissioned by director Daniel Birnbaum and curated by CM von Hauswolff, URL <a href="http://www.modernamuseet.se/stockholm/en/exhibitions/freq_out8/">http://www.modernamuseet.se/stockholm/en/exhibitions/freq_out8/</a> . Described as "the biggest composite piece of sound art ever exhibited in an art museum". Visitor numbers into the thousands, over 48 consecutive hours. |
| 34 | <b>Walking Bach Slowly</b>                         | Lindborg PM, Yong RZ, & Koh JBT (2010-11). <i>Walking Bach Slowly</i> . Sculptural 3D auditory display. System consisting of 12 channel playback for 3 custom-built 2dof swivel-mounted beam speakers and 9 regular loudspeakers, camera tracking system, cabling, custom-built large portable grid structure. Mixed materials. With funding from Lindborg's IMI grant. URL <a href="http://permagnus.org/pm/artwork/installations/wbs/index.html">http://permagnus.org/pm/artwork/installations/wbs/index.html</a>                |      | Public demo at IMI, NTU, 20 February 2011. The system was later repurposed for The Canopy, see above at ID 3.   |
| 35 | <b>Freq-Out 7</b>                                  | Hausswolff, Carl Michael, Lindborg PM, Grönlund T, Harding M, Kirkegaard J, LaBelle B, Nilsen BJ, Nisunen P, Petursson F, Pomassl F, Tankred K, Thirlwell J, Urstad M & Winderen J (2008). Site-specific collaborative sound installations, created for the acoustics and context of the location ( <a href="http://www.freq-out.org">http://www.freq-out.org</a> ).   | 2008 | Commissioned by Happy Ears Festival Kortrijk, Belgium, 13-20 Oct. 2008.   |
| 36 | <b>Staged multimedia performances</b>              |  |      |   |
| 37 | <b>AXIS, Anatomy of Space</b>                      | Belton D, Harrison D, Koh JBT, Lindborg PM et al. (2016-17). Multimedia performance, New Zealand & Singapore. With seed funding from Asia/New Zealand Co-Commissioning Fund (December 2015) and support from Otago Museum, The Arts House, and Goethe Institut.  | 2017 | Productions are currently being scheduled in New Zealand (Otago Museum) and Singapore (The Arts House) in first half of 2017  |
| 38 | <b>Canopy Opera</b>                                | Lindborg PM, Koh JBT & Turpin E, et al. (2016-17). Interactive drama with sculptures and multimedia (though most likely without singers.)  | 2017 | In planning, funding application pending (Nov. 2015). Currently in discussions with partners, including In collaboration with the Media Lab at Aalborg University Copenhagen, Denmark, and Singapore International Festival of the Arts.  |

Lindborg, Creative artwork (2007 – present)

| ID | Title  | Description   | Year | Performances /Exhibitions /Screenings /Publications  |
|----|--|---|------|--|
| 39 | <b>The Scroll of Nanyang Ink</b>   | Liong A, Lindborg PM et al (2015). Site-specific multimedia dance performance. Produced by ArtsFission Dance Company Pte Ltd. Lindborg contributed sound design through the LW24 sound sculpture. URL <a href="http://www.artsfission.org/#/currentworks/cb3i">http://www.artsfission.org/#/currentworks/cb3i</a> .   | 2015 | National Gallery, Singapore. 5-7 December 2015 (6 performances).   |
| 40 | <b>Make it New: Future Feed</b>  | Liong A, Koh JBT, Lindborg PM, Ong KP et al (2015). Site-specific multimedia dance performance. See also installation work and ICAD article. Produced by ArtsFission Dance Company Pte Ltd. Trailer at URL <a href="https://www.youtube.com/watch?v=YX7mzCX8TfE">https://www.youtube.com/watch?v=YX7mzCX8TfE</a> .  | 2015 | National Design Centre, Singapore. 7-8 February 2015 (2 performances).   |
| 41 | <b>TimeTravel - Tune In</b>  | Lindborg PM, Lien L & Geistweidt J (2012). Networked performance-installation (40 min. - indef.). With support from Lindborg's Tier 1 grant and commission from Arts Council Norway. Open rehearsal were conducted and the installation part was concluded with a live performance, connecting the Nordlys festival in Tromsø, Norway, with Innovation Centre Gallery in Singapore, URL <a href="http://permagnus.org/pm/artwork/stagedperformances/TimeTravel/index.html">http://permagnus.org/pm/artwork/stagedperformances/TimeTravel/index.html</a> . The public outreach included a visit by NTU President and guests, URL <a href="https://timetraveltunein.wordpress.com/2012/01/19/wip-demo-for-vips/">https://timetraveltunein.wordpress.com/2012/01/19/wip-demo-for-vips/</a> . | 2012 | Nordlys Festival, Norway and Innovation Centre Gallery NTU, Singapore, exhibited & performed telematically over Internet. Featuring members from Arctic Sinfonietta (Norway) and Ding Yi Ensemble, Chan HY, Koh JBT & O'Dwyer T (Singapore). 30 January - 2 February 2012. Live filmclip (low resolution!) <a href="https://vimeo.com/152154245">https://vimeo.com/152154245</a> . |
| 42 | <b>The Last Lumière</b>  | Leong A, Prvecki D, Koh JB, Lindborg PM, Findel-Hawkins S, & Arts Fission Dance Company (2011). Multimedia dance performance (60 min.) with dance, surround sound, sculptures, and light. Commissioned and produced by ArtsFission Dance Company. Lindborg contributed to sound design, designed the live surround sound system, and made audio recordings for film documentary.  | 2011 | Esplanade Theatre, Singapore, 4-5 March 2011 (two performances). See also the documentary DVD commissioned by National Library, Singapore. ArtsFission trailer URL <a href="https://youtu.be/2JV6QodU2JQ">https://youtu.be/2JV6QodU2JQ</a> , more at URL <a href="http://www.artsfission.org/#/company-milestones/icr89">http://www.artsfission.org/#/company-milestones/icr89</a> |
| 43 | <b>On the String, theatre of music</b>   | Koh JB, Lindborg PM, Stromberg D, Chian KH & Lim WW (2010). Multimedia performance (60 min.). Commissioned by National Arts Council for Singapore Arts Festival. Lindborg co-conceived the performance, created sound art, interaction design, surround sound, and designed the 3D multichannel live sound projection system. See also the 5.1 surround DVD commissioned by National Library, the catalogue text (Lindborg 2010), the conference presentation (Koh & Lindborg 2010), and article (Lindborg & Koh 2011). Project URL <a href="http://permagnus.org/pm/artwork/stagedperformances/OnTheString/index.html">http://permagnus.org/pm/artwork/stagedperformances/OnTheString/index.html</a>   | 2010 | Esplanade Theatre, Singapore, 4-5 June 2010 (three performances). Excerpt: <a href="https://www.youtube.com/watch?v=Oq_qGidG48">https://www.youtube.com/watch?v=Oq_qGidG48</a>   |
| 44 | <b>LAXASK</b>  | Lindborg PM & O'Dwyer T (2008). Music & video performance (60 min.) Commissioned by SOTA, Singapore.  | 2008 | Inside Out Festival 2008, SOTA, Singapore, 16+18 August 2008 (two shows).  |
| 45 | <b>Metal: Blown, Plucked, Lit</b>  | Lindborg, PM, Francesconi, L., Hegburg, J., Koh, J.B.T., Jackson, JS., Feinstein, K., Wong, S., & Sonderegger, F (2008). Multimedia performance with music, video, and sound sculptures (60 min). With support from ADM Startup grant /Creative Digital Centre. Project URL <a href="http://permagnus.org/pm/artwork/stagedperformances/MetalBlown/index.html">http://permagnus.org/pm/artwork/stagedperformances/MetalBlown/index.html</a> .   | 2008 | ADM Auditorium, NTU, Singapore. 20 March 2008. Documentary about the performance by Kalaidascope aka Roseane Kalavathi (ADM film student), trailer URL <a href="https://vimeo.com/152235100">https://vimeo.com/152235100</a> , documentary URL <a href="https://vimeo.com/152235099">https://vimeo.com/152235099</a> .   |
| 46 | <b>Music compositions (acoustic, electroacoustic, multimedia, interactive)</b> |   |      |  |



Lindborg, Creative artwork (2007 – present)

| ID | Title                              | Description  | Year | Performances /Exhibitions /Screenings /Publications  |
|----|------------------------------------|--|------|--|
| 47 | <b>Jago's Dream</b>                | Lindborg PM (2016–17). Composition for saxophone, ensemble, computer, and interactive audience member feedback. Commissioned with support from Arts Council Norway   | 2017 | Performances are planned for Nordlys Festival and and Kirkenes Festival, February 2017.  |
| 48 | <b>Romeo &amp; Juliet Swordle</b>  | URL <a href="https://vimeo.com/191334246">https://vimeo.com/191334246</a>  | 2016 |  |
| 49 | <b>Shakespeare Sonnets Swordle</b> | URL <a href="https://vimeo.com/191332249">https://vimeo.com/191332249</a>  | 2016 |  |
| 50 | <b>Tusalava</b>                    | Lindborg PM (1999/2005). Composition for saxophonist and computer to the film "Tusalava" (1929) by Len Lye. Commissioned by Animerte Dager Film Festival, Norway, 1999. Project URL <a href="http://www.permagnus.org/pm/artwork/electroacoustic/Tusalava/index.html">http://www.permagnus.org/pm/artwork/electroacoustic/Tusalava/index.html</a>  | 2016 | Performance by Chik Himhee, Bowling Green State University, USA, April 2016.   |
| 51 |                                    |  | 2012 | International Visual Music Symposium, ADM Auditorium, NTU, Singapore, 13 Oct. 2012. Performance by Tim O'Dwyer & PM Lindborg. Live film (low resolution!): <a href="https://youtu.be/lkXqelpnZao">https://youtu.be/lkXqelpnZao</a>   |
| 52 |                                    |  | 2008 | Inside Out Festival, SOTA, Singapore, 16+18 August 2008. Performance by Tim O'Dwyer (sax) & PM Lindborg as part of LAXASK  |
| 53 |                                    |  | 2009 | Multiple performances (sax + computer version) by Matt Sintchak & Jeff Herriot on tours in USA, 2006-9.  |
| 54 |                                    |  | 2008 | Moscow, Russia, 2008. Performance(s) by Jörgen Pettersson.   |
| 55 |                                    |  | 2008 | Multiple performances by Jörgen Pettersson in Sweden, e.g. Skövde, Stockholm, Göteborg, 2008.  |
| 56 | <b>Dissertation Swordle</b>        | Lindborg PM (2015). Audiovisual perceptualisation (duration 95.2 seconds) of the 9520 lines in my doctoral dissertation ( <a href="http://bit.ly/1JnZsIA">bit.ly/1JnZsIA</a> ). The 70 most common nouns and 69 most common adjectives have been sonified as the partials in a harmonic chord, while the words themselves are simultaneously displayed visually. Film (mid resolution) <a href="https://vimeo.com/149644432">https://vimeo.com/149644432</a> . | 2015 | KTH Royal Institute of Technology, Kollegiesalen, 11 Dec. 2015 as part of dissertation oral defence.   |
| 57 | <b>Búgó Resonances</b>             | Lindborg PM (2003). Composition for piano and CD (3 min.). Commissioned by Thalia Myers /ABRSM, UK.  | 2015 | Prodromos Symeonidis, Brandenburg, Berlin, 18 Nov. 2015. Recital performance "Unerhörtes Brandenburg". URL <a href="http://www.meetingpoint-brandenburg.de/neuigkeiten/artikel/20381-Kammerkonzert_Unerhoertes_Brandenburg">http://www.meetingpoint-brandenburg.de/neuigkeiten/artikel/20381-Kammerkonzert_Unerhoertes_Brandenburg</a> . |
| 58 |                                    |  | 2015 | Prodromos Symeonidis, BKA (Berliner Kabarett Anstalt), Berlin, 17 Nov. 2015. Recital performance "Unerhörte Musik". URL <a href="http://www.bka-theater.de/content_start.php?id=407">http://www.bka-theater.de/content_start.php?id=407</a> .  |

Lindborg, Creative artwork (2007 – present)

| ID | Title   | Description  | Year | Performances /Exhibitions /Screenings /Publications   |
|----|---|--|------|---|
| 59 |   |  | 2013 | Nordic Music Days, Helsinki Music Centre, Finland, 16 Oct. 2013. Anna-Maria Viksten, piano. <a href="http://nordicmusicdays.org/2013/en/saveltajat/lindborg-permagnus-no/">http://nordicmusicdays.org/2013/en/saveltajat/lindborg-permagnus-no/</a> .   |
| 60 | <b>Skalldans</b>                                  | Lindborg PM (2011). Kinetoaudiovisual laptop performance. See also article (Lindborg 2012) URL <a href="http://smcnetwork.org/node/1835">http://smcnetwork.org/node/1835</a> .   | 2014 | ADM /NTU, 6 Nov. 2014. Performance (Lindborg) at Sound +Music Open House.   |
| 61 |   |  | 2011 | Nordic Music Days, Iceland, 11 Oct. 2011. Performance (Lindborg) [competitive blind juried festival]. Live clip (mid resolution) URL <a href="https://vimeo.com/152237868">https://vimeo.com/152237868</a> .  |
| 62 |   |  | 2009 | Happy Ears Festival, Belgium, 20 Sept. 2009. Live clip (mid resolution) <a href="https://vimeo.com/152154247">https://vimeo.com/152154247</a>   |
| 63 |   |  | 2008 | MetalBlown, Singapore, 20 March 2008. See URL <a href="https://vimeo.com/152235099">https://vimeo.com/152235099</a> .   |
| 64 |   |  | 2008 | Choppa Festival, Singapore, 26 January 2008.  |
| 65 | <b>Man bör kalla saker vid deras rätta namn</b>   | Lindborg PM (2007-8). Score composition for chamber ensemble and soundfiles (10 min.). Commissioned by Ultima Oslo Contemporary Music Festival and Transposition Norway-Vietnam Cultural Exchange. Project URL <a href="http://permagnus.org/pm/artwork/acousticorchestra/manborkalla/index.html">http://permagnus.org/pm/artwork/acousticorchestra/manborkalla/index.html</a> | 2013 | Tempelliaukio [Rock] Church, Nordic Music Days, Helsinki, Finland, 17 October 2013. Chamber Orchestra of Lapland conducted by John Storgårds. <a href="http://nordicmusicdays.org/2013/en/saveltajat/lindborg-permagnus-no/">http://nordicmusicdays.org/2013/en/saveltajat/lindborg-permagnus-no/</a> . Official jury selection. Recording: <a href="https://soundcloud.com/permagnus-lindborg/2013lindborgman_bor_kalla-laplandchorchstorgardsyle">https://soundcloud.com/permagnus-lindborg/2013lindborgman_bor_kalla-laplandchorchstorgardsyle</a> |
| 66 |   |  | 2008 | Esplanade Theatre, Singapore, April 6 2008. YST Conservatory Contemporary Ensemble conducted by Chan Tze Law.   |
| 67 |   |  | 2007 | Hochiminh City Conservatory, Vietnam, 4 December 2007. Ensemble Bit20 conducted by Jonathan Stockhammer. First performance.   |
| 68 | <b>TimeTravel Explorations - Nosferatu's Ship</b> | Lindborg PM (2012). Music and video performance for saxophone and computer (22 min.). Commissioned by Den Frie Udstillingsbygning, Denmark. With support from Lindborg's Tier 1 grant. Project URL <a href="http://permagnus.org/pm/artwork/multimedia/NosferatuExplorations/index.html">http://permagnus.org/pm/artwork/multimedia/NosferatuExplorations/index.html</a>       | 2012 | Den Frie Udstillingsbygning, Copenhagen, Denmark, 10 June 2012. Performed at the Sound Art Exhibition and Concert Series by Lindborg (live audiovisuals) and Lars Lien (saxophones). Documentary film clip (low resolution!) <a href="https://youtu.be/pMuGtA1Hz50">https://youtu.be/pMuGtA1Hz50</a>  |
| 69 | <b>Edenkobener Beethoven Bagatellen</b>           | Lindborg PM & Koh JBT (2004). Series of composition for piano (16 min.). Commissioned by Stiftung Herrenhaus Edenkoben 2004. Dedicated to Konrad & Barbara Stahl.  | 2011 | Esplanade Theatre, Singapore, March 2011. Recital performance by Albert Lim.  |
| 70 | <b>Leçons pour un apprenti sourd-muet</b>         | Lindborg PM (1998-99, revised 2008). Interactive composition for saxophonist and computer. (10 min.). Creative project at IRCAM Cursus, supervised by M. Malt. See also book chapter (Lindborg 2003). Project URL <a href="http://permagnus.org/pm/artwork/electroacoustic/lecons/index.html">http://permagnus.org/pm/artwork/electroacoustic/lecons/index.html</a>            | 2008 | Inside Out Festival 2008, SOTA, Singapore, 16+18 August 2008 (two concerts), performances by Tim O'Dwyer and PM Lindborg.   |

*Lindborg, Creative artwork (2007 – present)*

| ID | Title   | Description   | Year | Performances /Exhibitions /Screenings /Publications   |
|----|---|---|------|---|
| 71 | <b>L'éventail en cuivre</b>                           | Lindborg PM (2004-7). Film (electroacoustic music & video installation). (11 min.) Trombone playing, recording, and programming for generative audiovisuals by Lindborg. Film (low resolution!) <a href="https://vimeo.com/152154244">https://vimeo.com/152154244</a> . | 2008 | ADM Auditorium at "Metal.Blown", NTU, Singapore. 20 March 2008. See URL <a href="https://vimeo.com/152235099">https://vimeo.com/152235099</a> .   |
| 72 | <b>Le mammoth englouti</b>                            | Lindborg PM (2006-7). Quadraphonic electroacoustic composition with live video (6 min.)   | 2007 | New Directions Festival, at "PerMagnus Lindborg portrait concert", LaSalle College of the Arts, Singapore, Nov. 2007. First screening of version with live video.   |
| 73 |   |   | 2007 | Festival IMEB Bourges, France, 2007. Official jury selection.   |
| 74 | <b>TuskExtraction, ConstipOrat</b>                    | Lindborg PM (2007). Film (electroacoustic music & video). (11 min)  | 2007 | New Directions Festival, at "PerMagnus Lindborg portrait concert", LaSalle College of the Arts, Singapore, Nov. 2007. First screening.  |
| 75 |   |   | 2007 | New Directions Festival, at "PerMagnus Lindborg portrait concert", LaSalle College of the Arts, Singapore, Nov. 2007.   |
| 76 | <b>Swirls, Edges</b>                                  | Lindborg PM & Vickery L (2007). Lindborg (video) & Lindsey Vickery (clarinet & electronics).  | 2007 | New Directions Festival, at "PerMagnus Lindborg portrait concert", LaSalle College of the Arts, Singapore, Nov. 2007. Live capture (low resolution!) <a href="https://vimeo.com/152154246">https://vimeo.com/152154246</a> .                  |
| 77 | <b>Other artwork (in supportive roles, selection)</b> |   |      |   |
| 78 | <b>Intonarumori Orchestra</b>                         | Performed works by Luigi Russolo and other composers.   | 2015 | Ensemble musician at concert, ArtScience Museum, Singapore, 12 Feb. 2015.   |
| 79 | <b>Nona Sensilia</b>                                  | Koh JBT (2004). Composition for choir and electronics. Lindborg made the interactive sound design.  | 2011 | Esplanade Recital Studio, Singapore 5 April 2014. <a href="http://www.esplanadesingapore.com/whats_on/programme_info/stuff_and_nonsense/index.jsp">http://www.esplanadesingapore.com/whats_on/programme_info/stuff_and_nonsense/index.jsp</a> |