

Biographies

alien productions (AT) was founded 1997 by media artists Andrea Sodomka (AT), Martin Breindl (AT), Norbert Math (IT) and August Black (US) as an artist's network for theory and aesthetics of new technology and media. The range of their works includes intermedia performance and installation, electronic music, net.art, radio art, sound art, interactives, video, visual arts and artistic photography.
<http://alien.mur.at>

Sirikit Amann (AT) studied political science, theater and economics in Vienna, Munich and Boston. Until 2007, she was a department manager for cultural mediation at KulturKontakt Austria. Currently, she heads the newly-founded Department of Artistic and Cultural Mediation at the Austrian Federal Ministry of Education, Art and Culture.

Olaf Bender aka byetone (DE) creates his music digitally. He assembles sine tones to complex sound fabrics. Digital clicks and effect plug-ins are essential to create the rhythms. All this is brought in a timely relation and so a track is born—an artificial world without any physical effort. Bender therefore uses visuals in the sense of animated light. Abstract animations support the abstract pieces of music—in this way the rhythm of music is transformed into a graphic equivalent. By using the computer, Bender controls the animations in realtime. In connection with sound effect processing this enables him to interact live on stage.

Sonja Bettel (AT) is a science journalist. She works for “Matrix—Computer und neue Medien” and Radio Ö1 and has been moderator of the Prix Ars Electronica Forums in September 2004–2006.

James Boyle (US) is William Neal Reynolds Professor of Law at Duke Law School, founder of the Center for the Study of the Public Domain and the Chairman of the Board of Creative Commons. This article is adapted from his new book *The Public Domain: Enclosing the Commons of the Mind*, which will be published by Yale University Press in autumn, 2008.

Frank Bretschneider (DE) works as a musician, composer and video artist in Berlin. His work is known for precise sound placement, complex, interwoven rhythm structures and its minimal, flowing approach. Described as “abstract analogue pointillism”, “ambience for spaceports” or “hypnotic echochamber pulsebeat”, Bretschneider's subtle and detailed music is echoed by his visuals: perfect translated realizations of the qualities found in music within visual phenomena.

Jonah Brucker-Cohen (US) is a researcher and artist. He is an adjunct assistant professor of communications at NYU's Interactive Telecommunications Program (ITP). He worked as an R&D OpenLab Fellow at Eyebeam in NYC from 2006/7. From 2001–4 he was a Research Fellow in the Human Connectedness Group at Media Lab Europe. He is co-founder of the Dublin Art and Technology Association (DATA Group). His writing has appeared in numerous international publications including *WIRED Magazine*, *Make Magazine*, *Rhizome.org*, and *Gizmodo*, and his work has been shown worldwide.

David Burns (US) is a Los Angeles artist who teaches at the University of California, Irvine. His work has shown recently at The Getty Center, Netherlands Architecture Institute, Los Angeles Contemporary Exhibitions, Fuller Craft Museum, Seoul Museum of Art, Florean Museum of Art, The Armory Center, LA Freewaves, and Machine Project.
<http://homepage.mac.com/luckmagnet>

Dentsu Inc. (JP), founded in 1901, is the largest advertising company brand and the fifth largest marketing and communications organization in the world. Based in Tokyo, Dentsu has pioneered and set global standards for integrated communications through its comprehensive range of advertising and marketing services, which have been adopted by a number of major international networks.
<http://www.dentsu.com>

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Leonhard Dobusch (AT) earned his doctorate as a member of the German Research Foundation's "Paths of Routine Processes" Research Training Group at the Free University in Berlin. He is currently doing research on "The Dispute about Copyright" at the Max Planck Institute for Social Research in Cologne.

Evelina Domnitch (BY) and **Dmitry Gelfand (RU/US)** create sensory-immersion environments that merge physics, chemistry and computer science with uncanny philosophical practices. Having dismissed all forms of fixative and recording media, Domnitch and Gelfand's installations exist as constantly transforming phenomena offered for observation. Because these rarely seen manifestations take place directly in front of the observer, without being intermediated, they often serve to vastly extend the observer's sensory envelope. Their works have been exhibited worldwide.
<http://portablepalace.com>

Jorn Ebner (DE/UK), 1966, is a visual artist. Studies: English Literature (University of Hamburg) and Fine Art (Central Saint Martins, London). Works across media with sound, Internet, animation, electronic and analogue drawings, and objects. Participation in a variety of international festivals (Siggraph, FILE, Stuttgarter Filmwinter) and exhibitions, most recently at *DoerriePriess* (Hamburg/Berlin). In 2001, Ebner received the *Kunstpreis des Medienforums München* and in 2002 was awarded a three-year AHRC Research Fellowship at the University of Newcastle, Fine Art.

Wapke Feenstra (NL) explores the direct physical and mental environment by tapping into local knowledge. In 1998 she started up the first digital story collection called *Verhalen van Dordrecht*, which is run by citizens and still active. With Antje Schiffrers and Kathrin Böhm she founded myvillages.org (2002). Her work can pop up as e.g. a travelbook (*The Best Place*, Veenman Publishers, 2007), a digital tree collection (www.webxylotheek.nl) or in a museum collection (SPOT 2001–2002, Boijmans Van Beuningen, Rotterdam NL).
<http://www.wapke.nl>, <http://www.myvillages.org>

Georgie Gold aka Patrik Huber (AT) is a performing artist in the field of interdisciplinary art at the interface of theater, performance, music and visual media. He also does conceptual work as an author, director, singer and actor. He founded (together with Doris Jungbauer) the Hubraum artists' collective (<http://www.Hubraum.net>). His international theater and performance projects have been produced at such venues as Theater Phönix, the Anatomietheater Vienna, Mladinsko Theater Laibach, the International Theater Festival in Sarajevo, the National Theater Zenica and the Landestheater Linz.

h.o (JP) (Hide Ogawa, Yuichi Tamagawa, Mizuya Sato, Taizo Zushi and Emiko Ogawa) is a media art group that creates conceptual art works using a mixture of media combined with digital technology. The name h.o is derived from the chemical symbol for water, H₂O, and refers to h.o's interest in various forms of communication between people. Its activities and ideas are inspired by awareness of things that appear in everyday scenes and criticism of the information-oriented society.
www.howeb.org

Rupert Huber (AT), born 1967, is a composer and musician. He studied music science, composition and electro-acoustic music in Vienna.

Joichi Ito (JP) is an activist, entrepreneur, venture capitalist. He is the CEO of Creative Commons, a non-profit organization that provides free tools that let authors, scientists, artists, and educators easily mark their creative work with the freedoms they want it to carry. He is co-founder of and board member of Digital Garage in Japan. He is on the board of a number of non-profit organizations including WITNESS, The Mozilla Foundation and Global Voices. He has helped start or has been an angel investor in a number of Internet companies including PSINet Japan, Infoseek Japan, Flickr, Last.fm, Technorati, Six Apart, Dopplr, Twitter, Socialtext, Kongregate and Rupture.

Dieter Kaufmann (AT) studied composition and electro-acoustic music in Vienna with Schiske and Einem, and in Paris with Messiaen, Leibowitz, Pierre Schaeffer and Francois Bayle. Since 1970, he has taught these subjects at the University of Music and Performing Arts Vienna, offering a class in composition since 1990 and in electro-acoustic composition since 1997. He is also president of the Austrian Association of Composers and of Austro-Mechana. Dieter Kaufmann has written vocal, instrumental, choral and orchestral works, electro-acoustic and live electronic compositions, and numerous works for music theater (including five operas).

Ulrich Kaufmann (AT). His projects are interactive and transcend the boundaries of individual media. He films architecture; documents and produces art; creates installations that move and that are moving and stages video workshops with children and young people. Under the name sogx.net, he and Sigrig Friedmann collaborate on multimedia artworks and forms of presentation. He makes architectural films, advertising spots and stage-set visuals, produces interactive spatial and sound installations and video-dance performances, conducts sound-and-image workshops and much more.
<http://www.sogx.net>

Tim Knapen (BE), born 1982, graduated as Master in Graphic Design at St. Lucas School of Art, Antwerp, Belgium. Tim often uses game situations and audience interactions as a starting point for his work. He works in interactive media and graphic design. His works have been shown at NICC (Antwerp), DeSingel (Antwerp), SMAK (Gent) and New Museum (New York) among others.

Aaron Koblin (US) is an Artist|Designer|Researcher focused on creating and visualizing human systems. He creates software and architectures to transform social and infrastructural data into artwork. Koblin's work has been shown internationally and is part of the permanent collections at the Museum of Modern Art (MoMA) in New York.

Gunda König (AT). In 1975, she founded the K&K Experimental Studio together with composer Dieter Kaufmann. With her innovative multimedia music theater programs, she has performed and toured in Europe, North & South America, Scandinavia, Iceland, Russia and many other countries. Gunda König frequently interprets contemporary lyric works and develops her own solo programs, often mixed with chansons and contemporary music.

Jurij Krpan (HR) has been the art director of Kapelica Gallery—Gallery for Contemporary Investigative Arts in Ljubljana since 1995. His curatorial work has included curating the Slovenian pavilion at the 50th Venice Biennial 2003, the 5th Triennial of Contemporary Slovene Arts, 2006, MOMA Ljubljana and being an Art Director of Cosinus Gallery in Berlyamont, Brussels, 2007–09.

Daniela Kuka (DE/AT) has been a member of the technical staff at the Ars Electronica Futurelab since 2005. There, she has developed content for projects dealing with art-in-architecture, social media, interactive storytelling and information design. She has also been involved in coordinating projects designed to further regional development and, since 2007, in scientific-strategic program development. 2005–07, she studied Media Culture Theory and Art Theory at the University of Artistic and Industrial Design Linz; 2002–05, Cultural Engineering at Otto-von-Guericke University in Magdeburg, Germany.

Katja Kwastek (DE) is an art historian and vice director of the Ludwig Boltzmann Institute Media.Art. Research. in Linz (A), where her research focus is on Interactive Art. Before, she worked as assistant professor in the Art History department of the University of Munich and was a Visiting Scholar at the Rhode Island School of Design in Spring 2006. Her main research field is digital media art, especially Interactive Art, communication arts and the aesthetics of media. She has curated exhibition projects, lectured widely and published many books and essays, including *Ohne Schnur. Art and Wireless Communication* (2004).

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Gerd Leonhard (CH) has spent over twenty-five years in the technology and entertainment industries, both in the U.S. as well as in Europe, and recently, in Asia. In 2005, Gerd co-authored *The Future of Music*. Gerd is also a digital media and Internet entrepreneur; he currently is co-founder and CEO of Sonific LLC. Gerd holds a Jazz Performance (Guitar) Diploma from Berklee College of Music (87), and is the recipient of Berklee's Quincy Jones Jazz Masters Award (1985). He is also a fellow of the Royal Society for the Arts (RSA, London).

Lichtfaktor: Sehvermögen (Marcel Panne) (DE) has been a photographer and VJ since 1997. He is the resident VJ of Basswerk, a German DnB Label. His visuals can be seen in theater projects and concerts and he has also done a lot of commercial events. <http://www.sehvermoegen.de>. **JiAR (David Lüpschen) (DE)** is a communication designer and graffiti artist. He has made many legal Graffiti pieces, T-shirts and Logo designs. <http://www.jiar.de>

Zachary Lieberman (US) uses technology in a playful and enigmatic way to explore the nature of communication and the delicate boundary between the visible and the invisible. He creates performances, installations, and online works that investigate gestural input, augmentation of the body, and kinetic response. Lieberman has held artist residencies at Ars Electronica FutureLab, Eyebeam, Dance Theater Workshop, and most recently at the Hangar Center for the Arts, Barcelona. Lieberman is currently developing a suite of software for disabled students that transforms their movement into an audio-visual response as a means for performance and self-expression. <http://thesystemis.com>.

Serafine Lindemann (DE) is a freelance curator of international and experimental art projects. She is the initiator and founder of the artcircolo art forum, and is responsible for the artistic conception and organization of "Art in R&D," the creative program of Vodafone Group R&D Germany. She is the initiator of *Overtures*, an interdisciplinary series of projects whose aim is to work together with artists to design promising communications strategies to increase awareness of the consequences of climate change for our society and our resources. www.overtures.de, www.artcircolo.de

Thomas Macho (AT) is professor of cultural history at Humboldt University in Berlin. He was awarded a doctorate in 1976 by the University of Vienna for a dissertation entitled *Dialektik des musikalischen Kunstwerks*. His habilitation in philosophy was completed in 1983 in Klagenfurt with a post-doctoral thesis entitled *Von den Metaphern des Todes. Eine Phänomenologie der Grenzerfahrung*. Macho is co-founder of the Hermann von Helmholtz Centre for Cultural Technologies and served as chairman of the Department of Philosophy III from 2006 to 2008.

Maurizio Martinucci (aka TeZ, IT) is an Italian multimedia artist and producer who has collaborated with, amongst others, Scanner, Kim Cascone, Taylor Deupree and Francisco Lopez. He uses technology as a means to explore synesthesia and the relationship between sound, images and space. He focuses primarily on generative composition in interactive painting, live cinema and sound installations. TeZ is also the brainfather of the Optofonica platform for Synesthetic Media and Sound Spazialization.

Jonathan McIntosh (US) is a video remix artist, photographer, multimedia teacher and activist. He has worked on numerous media related social justice and human rights projects across the United States. In spring 2008 Jonathan curated and presented a show of political remix videos for the 24/7 DIY Video Summit at the University of Southern California in Los Angeles. He also served as a consultant for the Remix America online video project. Most recently he was lead facilitator at the Fair Use Remix Institute workshop for urban youth in Chicago. <http://www.rebelliouspixels.com>

Tomoe Moriyama (JP) is Media Art Curator at the Museum of Contemporary Art, Tokyo. Since 1989, she has organized over 30 exhibitions on media art and pre-cinema history, mainly working on new-media art and the history of visual devices, at the Tokyo Metropolitan museum of Photography (TMMP). She teaches media arts as a Project Associate Professor at The University of Tokyo and is the author of several books on media art.

Michael Naimark (US) is a longtime media artist and researcher. He is expert in place representation and interactive movie maps. His work is an unusual combination of optimism and activism. Naimark was instrumental in the founding of several world-renowned research labs and his art projects exhibit internationally. He received the World Technology Award for the Arts in 2002. He is currently on the visiting committee for the MIT Media Lab and on the faculty in the interactive media division of the USC School for Cinematic Arts. <http://www.naimark.net/>

Sebastian Neitsch (DE) studied multimedia & virtual reality design at the University of Art and Design Halle in Germany. Exchange student and lecturer at Interface Cultures, Art University Linz (2007–2008). He won the Annual Multimedia Award 2008 in the category of uncommercial microsides with the interactive network-visualisation *WorldWideVip*.

Bianca Petscher (AT), born in 1981. She studied Musicology and German Languages at the University of Salzburg and Newcastle upon Tyne (UK) and has worked in several cultural institutions (University of Salzburg, Salzburger Bachgesellschaft). Since December 2005 she has been a member of the Prix/Festival team of the Ars Electronica Linz GmbH and is responsible for the organization of the Prix Ars Electronica and is also in charge of the concert events during the Festival Ars Electronica.

Manuela Pfaffenberger (AT). Since 1997 she has been working as an independent artist and curator. Her work focuses on projects that attempt to challenge accepted perceptions of visual arts and she is interested in the developments of contemporary artistic practices. Since 2003 she has been working for Ars Electronica Linz and curates and coordinates the external exhibitions of Ars Electronica.

Platoniq (ES) is a group of cultural producers, radio-makers and software developers who from the mix of their computer-technical knowledge and social interests have set up a number of independent community media projects such as <http://www.platoniq.net/burnstation>, <http://opensever.cccb.org>, <http://www.bankof-commons.org>

Franz Pomassl (AT) is executor of the seminal *trail error* (1996) album, one of the first records to really explore very low and very high tones as well as pioneering potentials of digital errors in terms of electronic music, a record which has inspired many fellow analog and digital artists, released on the laton label which he co-founded in the early 1990s. Beside the *skeleton* vinyl series he released a number of cutting-edge minimal techno records, starting from 1997 on viennese sabotage/craft label.

Qin Yi (CN) obtained her Bachelor Degree of Composition and Pipa (a traditional Chinese instrument) at the Shanghai Conservatory of Music in 2004. In 2006, she obtained her Masters Degree under Professor Chen Qiangbin and famous composer Qu Xiaosong. Now she is assistant professor at the Department of Music Engineering, Shanghai Conservatory of Music. Her works have been performed in many European countries such as Germany, Holland, Austria and Luxembourg, as well as in Australia, Singapore, Hong Kong and Taiwan.

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Raster-Noton (DE). “raster-noton. archiv für ton und nichtton” is meant to be a network covering the overlapping border areas of pop, art and science. It emerged from the fusion of the two labels rastermusic and noton (in 1999). They realize music projects, publications and installation works. The common idea behind all releases is an experimental approach—an amalgamation of sound, art and design. So far the catalogue of the label consists of about 70 releases. Most of the projects follow the concept of a series with contributions by very different artists such as William Basinski, Alva Noto, Ivan Pavlov aka coh, Ryoji Ikeda, Ryuichi Sakamoto or Carl Michael von Hausswolff. Olaf Bender and Carsten Nicolai run raster-noton.

<http://www.raster-noton.net>

Christian Rauch (DE) has been a senior technology manager with Vodafone Group R&D since 2000. Since 2006, he has also been a member of the board of the amina Foundation that advocates ethical management practices and responsible business dealings.

Itsuo Sakane (JP) is President Emeritus of IAMAS (Institute of Advanced Media Arts and Sciences, International Academy of Media Arts and Sciences) and Honorary Editor for LEONARDO. He was Professor at the Faculty of Environmental Information of Keio University, Shonan-Fujisawa Campus, (1990–1996) and a journalist for the Asahi Shimbun, covering the border fields between art, science and technology (1956–1990).

Christoph Santner (AT) is a futurist, speaker and founder of the innovation agency TheFutureKitchen in Salzburg and Munich. As a consultant he developed innovation projects for brands like VW, BMW, O2, European Patent Office and for start-ups in the USA and Europe. He performed InnovationCamps in California and Hawaii and co-founded the Weimarer Visionen—the festival of thinking. His mantra is: Mission is possible!

Mischa Schaub (CH), born in 1952. Studied Sculpture at the Kunstakademie Dusseldorf and Design at the Royal College of Art, Master of Design degree. Has written two books and numerous articles on the future of design. He is head of the Institute for Post-Industrial Design HyperWerk HGK FHNW and of the media-cloister project *salM2* in France. He devotes his time to exploring technology and working on strategies for sustainable development.

Christine Schöpf (AT) studied German and Romance Languages. Ph.D., journalist, from 1981 until 2007 head of the department of art and science at the ORF Upper Austria. Since 1979 in a number of different capacities she has made key contributions to the development of Ars Electronica and worked together with Gerfried Stocker, the artistic director of Ars Electronica since 1996.

Stefan Schwabe (DE) followed classes in multimedia | virtual reality design and the design of playing and learning at the University of Art and Design in Halle (DE). From 2007 to 2008 he was exchange student at the Aix-en-Provence School of Art (FR), in the classes hypermedia and mechatronics. Placed between art and design Stefan Schwabe is working on interaction-concepts and kinetic sculptures.

Michael Schweiger (AT) studied sociology in Linz, worked as a Media / Audio technician (freelancer) for a decade at OK and other institutions in Austria. Joined some Bands Projects such as *Yield7* and some electronic experimental line-ups. Since 2006 he has been a member of the Radio FRO Staff. Since April 2008 director of the Sound Studio, Art University Linz.

Domenico Sciajno (IT), double bass player and composer, studied Instrumental and Electronic Composition with Gilius Van Bergeijk and Double bass in the Royal Conservatory of Den Haag (NL). His interest for improvisation and the influence of academic education, bring his research to the creative possibilities given by the interaction between acoustic instruments, indeterminacy factors and their live processing by electronic devices or computers.

<http://www.sciajno.net>

Jan-Peter Sonntag (DE) is an artist and a composer. He studied plastic & graphic arts, art studies (majoring in new media), music, philosophy and cognitive science. Since 1988 he has exhibited frequently all over the world, mostly site-specific light-and-sound installations at the nexus of the human body and technical/medial systems. In 2002 he founded the N-solab development laboratory. In 2008 he was awarded the German Klangkunst Prize and the Cynet Art Award.

<http://www.sonarc-ion.de>

Elizabeth Stark (US) is a board member of the international student organization Freeculture.org and the founder of the Harvard Free Culture group. She works for the Berkman Center for Internet and Society. Elizabeth is an editor of the Harvard Journal of Law Technology and a Teaching Fellow for courses in Cyberlaw and Electronic Music, and conducts research on the legal implications of new technologies.

Brigitte Steiner-Schober aka DJini Godez (AT). Twelve years ago in the wake of extensive work with a wide variety of dance forms and musical styles, she created her artistic alter ego, DJini Godez. She paid her dues over the course with a program that took her from hair salons to ruins all over the world and from one end of the historical timeline to the other, constantly in search of unknown or forgotten musical treats.

Gerfried Stocker (AT), born 1964. Since 1995 artistic and managing director of the Ars Electronica Center and together with Christine Schöpf artistic co-director of the Ars Electronica Festival. He has been the editor of the Ars Electronica catalogues since 1996.

Michael Tiemann (US) is an open source software pioneer. He was the original author of the GNU C++ compiler and founded the world's first open source company (Cygnus Solutions in 1989). Michael is now President of the Open Source Initiative as well as Red Hat's Vice President of Open Source Affairs. He holds a BS-CSE from the University of Pennsylvania. As a boy he was a soprano and soloist in the Choir of St. Thomas Church in New York City. He has also studied classical guitar, jazz bass, and is now learning piano.

Ivan Tsupka (UA) is an artist working in the field of media art. Having a strong classical painting background he began to work on computer-generated art and animation at the end of the '90s. Since this time he has participated in more than 40 exhibitions and festivals of contemporary art.

Michel van der Aa (NL). Having completed his training as a recording engineer at the Royal Conservatory in The Hague, Michel van der Aa studied composition with Diderik Wagenaar, Gilius van Bergeijk and Louis Andriessen. He was responsible for the stage direction as well as the conception and creation of the film segments in the operas *One* and *After Life*. His film directing credits include the short film *Passage* as well as the television production of *One* for the Dutch national broadcasting company NPS. Van der Aa's music has been performed by ensembles and orchestras worldwide. He has won numerous prestigious awards.

Matias Viegner (US) is a writer, artist and critic, teaching at CalArts. He writes regularly on art for *ArtUS* and *X-tra*, has recently been published in *Cabinet*, the *Journal of Aesthetics & Protest*, *Radical History Review*, and *Black Clock*, and is the co-editor of *Séance in Experimental Writing* and *The Noulipian Analects*.

Theodore Watson (US/NL) is an interactive artist and designer living in Amsterdam. Theodore has shown his work at Ars Electronica, Eyebeam Art and Technology Center, the Dumbo Video Art festival, Deitch Projects, Resfest and at the ICHIM 05 conference in Paris.

<http://muonics.net>

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Bernd Wiemann (DE) was the founding managing director of Mannesmann Pilotentwicklung, which he has headed ever since and which today is Vodafone Group R&D. This business unit works on future products and services for existing and future telecommunications markets. Among the tools of his work are the nurturing of a creative corporate culture and—besides technical and business excellence—manifold creative processes such as time travel, improvisation theatre and especially the challenge of artistic dialogue.

Susi Windischbauer (AT) studied History of Art and Cultural Management at the University of Graz (AT), and worked in several cultural and youth organizations. Since March 2007 she has been a member of the Prix/Festival team of the Ars Electronica and is responsible for the organization of the u19 freestyle computing category—the competition for children and young people.

Markus Wintersberger (AT) studies at the University of Applied Arts in Vienna under Prof. Bernhard Leitner. Since 1995 he has been a freelance artist. Since 1996 he has held various teaching positions at Austrian universities. Intensive research and aesthetic use of media production mechanisms, both hardware and software.

Austin Young (US) is a Los Angeles artist working primarily in photography and video. He publishes regularly in *Interview* magazine, as well as *Surface*, *Flaunt*, *Vogue*, *Spin*, and *Rolling Stone*. Shows include Artists Space, Netherlands Architecture Institute, University Art Gallery/ UC Irvine, LACE, and The Armory Center for the Arts. <http://www.austinyoung.com>

Pamela Z (US) is a composer/performer and audio artist who works primarily with voice, live electronic processing, and sampling technology. In addition to her solo work, she has composed and recorded scores for dance, theatre, film, and new music chamber ensembles. Her large-scale multi-media works have been presented at Theater Artaud and ODC in San Francisco and at The Kitchen in New York, and her audio works have been presented in exhibitions at the Whitney Museum in New York and the Diözesanmuseum in Cologne. Pamela Z has toured extensively throughout the US, Europe, and Japan. She is the recipient of numerous awards. She holds a music degree from the University of Colorado at Boulder. <http://www.pamelaz.com>