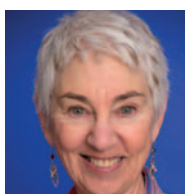


Brief Biographies



Susan Alexjander Composer and sound designer

Susan has a Master's degree in Theory and Composition from San Jose State University in California. Her compositions have been performed throughout the United States, including collaborations with dance companies, filmmakers and sculptors for gallery installations.

In addition to a twenty year university-level teaching career in music, she is an avid presenter of workshops on the physics and metaphysics of sound. Her main love since 1988 has been to research vibrational frequencies from the natural world of molecules, stars, elements, body rhythms, time cycles, water etc., and to translate those patterns into sound. This is motivated by a desire to hear the dance; the sonic landscape in which "everything is, on some level, communicating with everything else."

Her album *Sequencia* is internationally known for pioneering sound based on the molecular frequencies of DNA, and has been featured on major radio stations, galleries and exhibits throughout the world. Her film soundtracks with filmmaker Diana Hobson have been featured in Europe and the US.

For more, visit: www.OurSoundUniverse.com



Lotte Anker Danish saxophonist and composer, among the leaders on the Scandinavian improv/jazz/experimental scene

Lotte, soprano, alto- and tenor saxophonist and composer, is one of the strongest improvisers in the freeform in Denmark, and a very active composer for small groups, big band, chamber, orchestras, and choirs. She is co-leader of the highly acclaimed 12-member Copenhagen Art.

Ensemble and leader of several trios/duos, has numerous collaborations and playing partners; and is constantly on world tours.



Martin Chaplin Water chemist

Martin graduated in Chemistry from the University of Birmingham in 1967. Over the following three years he completed a PhD on the structure and biology of glycans on human follicle stimulating hormone. After two years teaching chemistry at Bunda College of Agriculture University of Malawi, East Africa, he returned to Birmingham

University as a Faculty Research Fellow to continue work on the glycoprotein hormones and to start some enzyme technology research. His interest in these research areas continued during a lecturing post in the Biochemistry Department of Leeds University and a four-year seconded post at the University of Ghana, West Africa. Since 1985 he has been at London South Bank University, where he successfully mentored 25 PhD students, and is now Emeritus Professor of Applied Science.

Martin's interest in water developed throughout his career but took a dramatic turn when he was preparing lectures on the structure of glycans in aqueous solution, and considered how the structure of water might affect the structure of glycans. In 1999, he proposed an original hypothesis on the structuring of water that agreed with all the then current data, but was not discovered by x-ray scattering until more than two years later.

He is also well-known as author and webmaster of an extensive website on water <http://www.lsbu.ac.uk/water/>.



Chee Yoke Ling Director of Third World Network

Yoke Ling is a lawyer with degrees from the University of Malaya (Malaysia) and Cambridge University (UK). She is the Director of Programmes of Third World Network which has its international secretariat in Malaysia. She is currently based in

Beijing. After teaching public interest law courses at the University of Malaya, she went into full-time NGO work in 1989. She has been very active in policy research and advocacy since the mid-1980s, from the national to global level, focusing on trade, environment and development issues from the perspective of developing countries. As a firm supporter of multilateralism her work involves various processes at the United Nations. She has engaged actively with civil society groups and governments in the evolution of sustainable development principles and actions since the 1992 Earth Summit in Rio de Janeiro. Yoke Ling is currently working on issues related to biodiversity and traditional knowledge, biosafety, climate change, and intellectual property in the context of equity and social justice. She is a member of the Reflection Group on Global Development Perspectives, a board member of the Dag Hammarskjöld Foundation and on the Institute of Science in Society board of trustees



Edward Cowie Internationally renowned composer, visual artist and naturalist

Edward has a first degree in physics, which also formed a central part of his PhD thesis, *A Special Theory of Related Forms*. Since the premiere of his BBC Prom commission *Leviathan* in 1975, his music has been featured in major festivals all over the world.

He has had more than 30 one-man exhibitions in 7 countries and his paintings and drawings are in public and private collections worldwide. He has recorded and performed as a pianist in several countries and conducted orchestras and ensembles in Germany, the United Kingdom and Australia. His music is recorded on Hyperion, NMC, Metier, Brain Music, UHR labels and published by Schott and United Music Publishers.

Also holding a doctorate in music, Cowie has held professorships in the USA, Germany, UK and Australia. His BBC TV2 film on Leonardo won the Prix Italia in 1985 for *Best Arts Documentary*. He was appointed the first Composer in Association with the BBC Singers in 2003, and in the same year, the first Artist in Residence with the Royal Society for Birds for 3 years. He is much in demand as a public speaker, having given The Ruskin Lecture at Oxford and The Gertrude Langer Memorial Lectures in Australia. More at www.edward-cowie.com



Heather Cowie Artist

With a first degree in Geology and Post graduate diploma in Computing, Heather spent many years living and working in isolated areas of Australia and South Africa (with a short stint in the sub-Antarctic). Her fascination with the way nature performs, whether in its multitudinous formal variation, or in its amazing repertoires of colour, sound and shaped-action, inspired her scientific investigations in the field, and provided an expansive experiential resource for her future arts practice.

She started exhibiting in the late 80s, and returned in 1991 to study for a Masters of Creative Arts at James Cook University in Australia, which gave her a platform to explore the relocation of natural sound and musical forms into visual correspondences.

After moving to the United Kingdom in 1995, she set up her studio near Dartmoor National Park and began exhibiting at galleries across England. Her art has always been a statement about, and manifestation of, her relationship to the natural world.



Dennis Tim Crowe Veterinary surgeon, educator, inventor

An inventor of over 50 surgical and emergency/critical care procedures used worldwide, Tim has practiced as a board certified veterinary surgeon for 32 years, concentrating on nutritional support, resuscitation and traumatology; and within

the past 20 years on hydration and its profound effects on animal patients. He is Chief of Surgery and Critical Care at the Regional Institute of Veterinary Emergencies and Referrals

in Chattanooga, Tennessee, active in the College of Public Health at the University of Georgia's Institute of Health Management and Mass Destruction Defense, and is also a certified fire-fighter and volunteer.

Tim is a founding member of the American College of Veterinary Emergency and Critical Care; a Fellow of the American College of Critical Care Medicine active in the Program Committee of the Society of Critical Care Medicine; and a member of the American College of Hyperbaric Medicine and Medical Director of the Hyperbaric Veterinary Medicine. He has more than 500 refereed and non-refereed articles, and given over 1 000 invited lectures throughout the world.

He has been honoured with the most prestigious award from the Veterinary Emergency and Critical Care Society in recognition of his pioneering work in both human and veterinary medicine.



Joe Cummins Environmental scientist and geneticist

Professor Emeritus of Genetics at University of Western Ontario, and Distinguished Fellow of the Institute of Science in Society, Joe gained his PhD from the University of Wisconsin, and carried out postdoctoral research at Edinburgh University, the McArdle Cancer Institute, University of

Wisconsin, and The Karolinska Institute, Stockholm followed by academic appointments at Rutgers University and University of Washington. His research was primarily in the area of RNA and DNA in the cell cycle until the 1970s and 80s, when his focus turned to the environment and the effects of pollution on genes. He prepared reports on water and air pollution in Canada, and served on the board of directors of Greenpeace Canada. Cummins became critical of genetic engineering through articles and lectures beginning in the 1980s, and participated in many government reviews and public meetings. He was a founding member of ISIS, and has written innumerable, critical, and widely acclaimed reports for ISIS since 1999.



Emilio Del Giudice High energy and quantum field theorist

Born on 1 January 1940 in Naples, Italy, Emilio is now retired from the position of Senior Scientist at the Italian Institute for Nuclear Physics. He has done research at MIT (Cambridge, USA) and at Niels-Bohr Institute in Copenhagen. A theoretical physicist whose main interests are quantum field

theory and physics of collective and coherent processes, he has also investigated the structure of liquid water, with particular reference to living matter.



Peter Fisher Homeopath and Physician to Her Majesty the Queen

Peter Fisher is Clinical Director and Director of Research at the Royal London Hospital for Integrated Medicine (RLHIM), part of the University College London Hospitals NHS Foundation

Trust and Europe's largest public sector centre for integrated medicine. He is a member of the Expert Reference panel the Member, UK National Institute of Health and Clinical Excellence (NICE), and Physician to Her Majesty Queen Elizabeth II. He is a

member of WHO Expert Advisory Panel on Traditional and Complementary Medicine, currently involved in drafting its Traditional and Complementary Medicine Strategy for 2014-2023

Peter is also Editor-in-Chief of Homeopathy published by Elsevier, the only journal dedicated to the topic indexed in Medline and has an Impact Factor. He chairs ISCHI, the International Scientific Committee for Homeopathic Investigations and the International Congress on Complementary Medicine Research to be held in London in April 2013. He also leads the Complementary and Alternative Medicine Library and Information Service (CAMLIS), which provides unique access to the CAM literature.

His work centres on responding to the problems of health care, including 'effectiveness gaps', cost and side effects, by integrating the best of traditional and complementary medicine. He is an active clinician, specialising in homeopathy and rheumatology.

Peter has conducted numerous research projects in integrated and complementary medicine; his interest triggered by a visit to China during the Cultural Revolution, while still a medical student at Cambridge University.



Elmar Christof Fuchs

Dipl.-Ing. (MSc) 2001 Physical Chemistry and PhD 2006 Chemistry with distinction at Graz University of Technology (TU), is Scientific Project Manager of Applied Water Physics and member of the scientific management team at Wetsus, Centre of

Excellence for Sustainable Water Technology, Leeuwarden, Netherlands.

Since 2006, Elmar has been doing research several times a year at the laser lab of Prof. Jakob Woisetschläger, Institute of Thermal Turbomachinery and Machine Dynamics, at Graz TU. He also carried out experiments on the floating water bridge at Elettra Synchrotron Facility (Italy) with Dr. Filippo Bencivenga and Dr. Silvia Di Fonzo; at LLB/Saclay neutron scattering facility (France) with Prof. José Teixeira; at ISIS Oxford (United Kingdom) S(Q) neutron scattering facility with Prof. Alan Soper; at NASA Ames (USA) infrared emission spectroscopy facility with Prof. Friedemann Freund and bacterial behaviour with Prof. Lynn Rothschild; and at AMOLF Amsterdam (The Netherlands) ultrafast vibrational relaxation spectroscopy facility with Prof. Huib Bakker.



Julian Haffegge ISIS webmaster, musician, composer

Julian Haffegge studied physics at the University of Essex before joining Mae-Wan Ho's research team in 1993. He obtained an MPhil on the effect of electromagnetic fields in aligning collagen fibres during self-assembly.

Julian was a founding member of the Institute of Science in Society; he created its website and has been managing it ever since. The website is very popular, and is archived by the British Library as part of national documentary heritage. He is also production editor of the quarterly magazine *Science in Society*.

Julian has always been a keen musician, playing and mixing numerous wind, string and percussion instruments. He has played and recorded with many musicians, both as a band member and session musician, performing widely throughout UK, Europe and the USA.



Kathy Haffegge ISIS artist working in textiles

Kathy loves to transform plain fabrics into patterns and textures, creating new designs with a variety of hand stitches using dyes, paper, metals, wires, paint, and embossing powders.

She did a City and Guilds course in creative embroidery, and have been showing and selling her work and leading workshops in the Milton Keynes area for 12 years. For the past few years, images of her works have appeared frequently in the

pages of *Science in Society* magazine.

She is a member of the Stacey Hill Stitchers, a group that meets in and supports the local Museum of Agriculture. The group's activities include making historic costumes, samplers, fund-raising and teaching sewing skills to local children.



Stevo Hausheer Singer, songwriter, musician

Steve went to Texas Christian University's Van Cliburn School of music, then shifted to audio engineering and radio. While at radio station WBAP - then clear channel leader of the Country Western musical world - he earned his first pro gig, picked up by Box Car Willie playing rhythm guitar on his Southwest tour.

Steve began writing songs, originally with Curt Powell and then Ken Lewis to publish several tunes together under Endpoint

Publishing, Chicago, IL. He also found work as a bass player, gigging with several cover bands, playing the summer festival circuit and the Chicago bar scene. Steve formed his first original band, Third Coast Wave; and along the way met Jimmy Rogers, who convinced him to sing his songs, became his vocal coach, and collaborated on several tunes as The JR Project until Jimmy's passing. Steve then formed Bitterroot Band to bring his catalog to life (BitterrootBand.com).

Most recently, Steve performed in China, singing at The Cotton Club in Shanghai and also with The Tonics, a band he formed while working as a visiting professor at Wuhan University's International Summer Session (source of his Stevo moniker). His Bitterroot Band won The Underground 2012 Talent Search in Chicago. Steve is a frequent special guest with Chicago's best known bluesmasters (<http://www.facebook.com/steven.hausheer>).



Adrian Ho Founding partner of Zeus Jones

Zeus Jones is an innovative advertising company that believe actions speak louder than words, that modern brands are defined by what they do not what they say.

Adrian was formerly director of strategic planning at Fallon in Minneapolis where he led a department widely recognized as one of the best in the country. Prior to that, he led planning on HP at Goodby, Silverstein & Partners and served as the lead planner on Microsoft Anderson & Lembke, both in San Francisco.

Adrian's thinking has been recognized by the IPA and EFFIEs. He is a former AAAA account planning committee member and co-chair of the national planning awards program.



Mae-Wan Ho Scientist/artist and Director of ISIS

Mae-Wan is well-known for pioneering work on the physics of organisms and sustainable systems, also a staunch critic of neo-Darwinian theory and the biotech industry. As Director and co-founder of the Institute of Science in Society to reclaim science for the public good, she has received several awards and recognition, and often asked

to advise governments, non-government organisations and international agencies.

Her life-long ambition is to integrate sciences, arts and the humanities in a coherent way of knowing, understanding, and living. She started painting over 40 years ago, and finally found her element in water. Within a year, she wrote a book '*Living Rainbow H₂O*' (2012) on the latest quantum physics and chemistry of water in living organisms, and produced dozens of energetic new paintings on the subject. It occurred to her that the time was ripe for an art/science/music festival; she named it "Colours of Water". The response has been fantastic.

Much in demand as a public speaker and a prolific writer, Mae-Wan has more than 170 scientific publications, over 500 popular articles and essays across many disciplines, and 15 books including *Beyond neo-Darwinism: An Introduction to the New Evolutionary Paradigm* (1984); *The Rainbow and the Worm, the Physics of Organisms* (1993, 2nd ed.1998, 3rd ed, 2008); *Genetic Engineering Dream or Nightmare?* (1998, 1999, 2007); *Food Futures Now* (2008); *Green Energies, 100% Renewables by 2050* (2009), *Quantum Jazz Biology*Medicine*Art* (2011).



Jenny Howe Jazz singer, actor

Jenny worked with NYJO and Shakatak in the mid/late 1990s, featuring on the NYJO album *Nite at Ronnies*, and now has a string of TV, film and dance track recordings to her credit.

Film soundtracks include *The Brylcreem Boys*, starring Gabriel Byrne, *Dream*, *Hot Gold*, and *LA Sheriff's*

Homicide, while dance tracks include "Heaven On Earth" for the production outfit *Shut Up And Dance*, and two co-written numbers on the album *Downtime* by the band *Playpen*. She has also worked as an actor and voiceover artist, playing the part of "Mrs Croucher" in Spike Milligan's film *Pukoon*, starring Elliot Gould and Sir Richard Attenborough, and doing voiceovers in the BBC drama *Ballykissangel* and for *National Geographic*. As a jazz singer, she has appeared at major London venues, including the Queen Elizabeth Hall, and has a long-standing collaboration with composer/pianist/arranger Chris Lee, featuring on their album *Second Take*, which they showcased at *Bury Jazz Festival* in 2009.



Djuro Koruga Nanotechnologist and bioengineer

As professor and Head of NanoLab and Biomedical engineering in the University of Belgrade, Serbia, Djuro has been principle investigator on 12 government and 8 industrial biomedical engineering projects since 1985.

While in the USA (1990-1997) he worked on projects for the NSF, NASA, and DARPA, and in the University of Arizona. He participated in the first U.S Army Natick Research Symposium on STM/AFM in 1993. He holds patents for many inventions, and was awarded the Golden Medal Nikola Tesla in 2003. He has published about 120 scientific papers and several books, including *Fullerene C60: History, physics, nanobiology, nanotechnology*, North-Holland (Elsevier), 1993.

Since 2002 he has been doing research in water science and nanotechnology. In last few years he organized three international conference on *Water based nanomedicine*. Paramagnetic/diamagnetic property of water is his primary interest in water research.



Eric Landen Corporate ecosystem economics consultant

Eric runs a global management consulting firm specializing in corporate ecosystem economics. He helps big business and government account for the financial and social value of nature when making decisions. Corporate and

public-sector decision makers often treat nature like it's worthless, when actually it's priceless... He is on the board of the Water Ethics Network and a member of the Society for Conservation Biology's Religion and Conservation Research Collaborative, which advises global governmental and religious policymakers on issues at the intersection of religion and environmental conservation.



Chris Lee Jazz pianist, composer, and research scientist/lecturer in psychology and linguistics

Chris studied at the Royal College of Music, London, and then at the University of Sussex, where he obtained a PhD in experimental psychology. His musical development saw him move from an accomplished classical player in the early 1980s to the jazz world, where he has built a reputation as a performer, arranger, and composer. He has performed with some of the leading singers on the UK jazz scene. His arrangements of well-known rock/pop standards feature on two critically acclaimed albums, "Alternative Arrangements" recorded with singer Anton Browne, and "Second Take" recorded with singer Jenny Howe. He writes both songs and film scores, the most recent for the short documentary, "L'esprit de l'escalier", produced and directed by Searle Kochberg. His compositional abilities earned him a place in the 2009 BBC2 programme "Classic Goldie", where he was featured alongside conductor Ivor Setterfield assisting drum and bass artist Goldie in composing a classical piece for the Family Prom on the theme of evolution.

As a research scientist, he has published work in the area of rhythm perception in music and rhythmic organization in language. He is currently a visiting lecturer on the MSc Music, Mind and Brain programme at Goldsmiths, University of London.



Shui-Yin Lo Particle physicist and researcher in quantum health

Shui-yin obtained his Ph D (1966) from the University of Chicago, and was successively Prof of Physics at University of Melbourne, Australia; Prof of Research in Chinese Medicine at American University of Complementary Medicine; Director of Quantum Health Research Center, Pasadena, California; Visiting Faculty at Department of Chemistry, Caltech, 1994-1998; Also Visiting Faculty at more than ten international centres of excellence, including Oxford University, Free Berlin University, Stanford, McGill University, Academia Sinica of Beijing. Professional publications include 4 books, over 100 peer-reviewed articles and more than 30 patents. Popular publications include *Double Helix Water* (2009); *Biophysics basis for acupuncture and health* (2004); and columnist for *Acupuncture Today* (2003-present).



Jim Oschman Pioneer of energy medicine

Jim Oschman founded Nature's Own Research Association to counter the unsustainable exploitation of our planet's resources. But a search for the missing pieces in modern medicine led to pioneering work in energy medicine, for which he is world renowned. This followed a successful career as a cell biologist with publications in some of the leading peer-reviewed scientific journals.

Jim developed scientific insights in his book *Energy Medicine: the scientific basis that can help therapists from every tradition understand and advance their work and explain it to others*. It also provides a theoretical basis for empirical investigations into the physiology and biophysics of energy medicine for serious scientists.

Jim got his first and second degrees in Biophysics and Biology from the University of Pittsburgh, and has worked in major research labs around the world. To learn about the theories and practices of CAM, he has both taught and attended classes at around the world, and personally experienced a wide range of bodywork techniques. He has gained recognition as President of the New England School of Acupuncture and received a string of awards including a Distinguished Service Award from the Rolf Institute, the Founders Award from the National Foundation for Alternative Medicine, and a Distinguished Service Award from the Second International Fascia Research Congress. He researches and writes in Dover, New Hampshire, and lectures world-wide.



Joe Pettitt bass player

Joe graduated in 2003 from Trinity College of Music after winning the Henley Festival Prize for Jazz and the Archer Big Band Scholarship. He is now one of London's most in demand freelance bass players working in a variety of fields.

Big band and orchestral work includes the Royal Liverpool Philharmonic Orchestra, John Wilson Orchestra, Ronnie Scott's Big Band, Back to Basie Orchestra, Len Phillips Big Band and Glenn Miller Orchestra UK. Work with jazz artists includes Claire Martin, Clare Teal, Elaine Delmar, Dave O'Higgins, Frank Griffiths, Duncan Lamont, Joe Stilgoe and Peter King. Session/broadcast credits include Betty Blue Eyes (cast album), Lend Me A Tenor (cast album), Michael Ball (Past & Present), Love Never Dies (cast album), Penelope (film soundtrack), Brendan Cole Live & Unjudged (DVD), David Soul (ITV), John Wilson Orchestra (ITV) and Gary Williams (BBC). West End show and cabaret credits include Top Hat, Singin' In The Rain, Privates On Parade, Betty Blue Eyes, Carousel, High Society, Oliver, Fiddler on the Roof, Chicago, Anything Goes, Bruce Forsyth, Des O'Connor, Ronnie Corbett, Cliff Richard, and Richard Stilgoe.

Joe also plays in the swing band King Candy & The Sugar Push and funk band Payback. Since 2009, he has been the musical director of the Len Phillips Big Band.



Gerald Pollack World's foremost water researcher

Gerald Pollack received his PhD in biomedical engineering from the University of Pennsylvania in 1968, then joined the University of Washington faculty and is now Professor of Bioengineering.

His interests have ranged broadly, from biological motion and cell biology to the interaction of biological surfaces with aqueous solutions.

His 1990 book, *Muscles and Molecules: Uncovering the Principles of Biological Motion*, won an "Excellence Award" from the Society for Technical Communication; his more recent book, *Cells, Gels and the Engines of Life*, won that Society's "Distinguished Award." His forthcoming book *The Fourth Phase of Water: Beyond Solid, Liquid, and Vapor* will be published in late 2012.

Pollack received an honorary doctorate in 2002 from Ural State University in Ekaterinburg, Russia, and more recently named an Honorary Professor of the Russian Academy of Sciences, and Foreign member of the Academy of Science and Arts of the Republic of Srpska. He received the Biomedical Engineering Society's Distinguished Lecturer Award in 2002. In 2008, he received the University of Washington Faculty Lecturer Award. Pollack is a Founding Fellow of the American Institute of Medical and Biological Engineering and a Fellow of both the American Heart Association and the Biomedical Engineering Society. He is also Founding Editor-in-Chief of the journal, *WATER*, and recently received an NIH Director's Transformative R01 Award. He was also the 2012 recipient of the Prigogine Medal.



Li Poon ISIS artist

Li Poon from Toronto, Canada, has been the resident artist at Science in Society since the beginning. His works has appeared on and inside the covers of the magazine so frequently that they have become the magazine's trademark.

Li has both trained and worked in science and engineering before turning to painting. He began traditional Chinese painting when he was 18; gradually experimenting and developing a unique fusion of indigenous European, Chinese and Meso-American styles, yet going well beyond them. His recent works are bold, spontaneous and protean; he sees them as intimate dialogues with the continuous creative process that is our universe.



Matt Poon ISIS artist

Matt Poon grew up in Hong Kong, pursued engineering studies in Canada, and settled in Australia. He rediscovered his childhood passion for painting six years ago when he was tutored by the late Wenda Ashton of the renowned Ashton family. He experiments with watercolour and charcoal, painting a wide range of subjects including land and seascapes, human figures, wild animals and pets. He has exhibited widely in Australia and won several prizes including the Peoples' Choice Awards of DeeWhy Art & Craft Show four years in a row, 2007-2010, and an Honorable Mention in the prestigious Warringah Art Exhibition 2008. Many of his paintings have a distinctive poetic quality reminiscent of contemporary Japanese water colours. The powerful images he created for the festival are a new venture based on aboriginal water myths that he has clearly taken to heart.

At about the same time that he took up painting, Matt took some lessons in Tai Chi; and says it would make him really happy if he can integrate the Tai Chi movements into his art.



Stephen Preston Flautist

Stephen Preston is without doubt the greatest living Baroque flautist, and has recorded and performed all the great baroque concertos over the years. However, in 2002, he embarked on PhD studies into *the influence of a study of birdsong on new techniques for the baroque flute*. This led to the development of radical and far-reaching new techniques and sounds and a system known as *ecosonics*. His association with Edward Cowie is longstanding and in addition to completing his PhD under Edward's supervision, has commissioned and/or performed Cowie's works specially composed for him. His interest in the natural world is deep and enduring.



Mark Sanders Drummer/percussionist

Mark has played with many renowned musicians from around the world in duos, quartets or trios, including Evan Parker, Peter

Brotzmann, Derek Bailey, Myra Melford, Paul Rogers, Henry Grimes, Roswell Rudd, Okkyung Lee, Barry Guy, Tim Berne, Otomo Yoshihide, Luc Ex, Ken Vandermark, Sidsel Endresen and Jean Francois Pauvros, Wadada Leo Smith, Charles Gayle, Sironne and William Parker.

New collaborative projects include 'Riverloam Trio' with Mikolaj Trzaska & Olie Brice, 'Asunder' with Hasse Poulsen & Paul Dunmall, duos with John Butcher and DJ Sniff, 'Statics' with Georg Graewe & John Butcher and trio with Rachel Musson & Liam Noble

Mark and John Edwards play as a rhythm section with many groups including Trevor Watts Quartet, 'Foils' with Frank Paul Schubert and Matthias Muller, Mathew Shipp's 'London Quartet' also playing with Fred Frith, Wadada Leo Smith and Shabaka Hutchins among many others.

Christian Marclay's 'Everyday' project includes Mark with Christian, Steve Beresford, John Butcher and Alan Tomlinson. He also works regularly in the projects of Mikolaj Trzaska, Gail Brand, Paul Dunmall, Peter Jaquemyn, and Simon H Fell.

Mark has performed in the USA, Canada, Brazil, Japan, Morocco, South Africa, Mozambique and Turkey, playing at many major festivals including, Nickelsdorf, Ulrichsburg, Glastonbury, Womad, Vancouver, Isle of Wight, Roskilde, Berlin Jazz days, Mulhouse, Luz, Minneapolis, Banlieue Bleues, Son D'hiver and Hurta Cordel. He has released over 120 cds



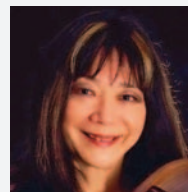
Peter Saunders Mathematician, co-Director of ISIS

Professor Emeritus of Applied Mathematics at King's College, London University, author of more than 100 papers and the book, *An Introduction to Catastrophe Theory* (1981), also coedited *Beyond neo-Darwinism, the Epigenetic Approach to Evolution* (1984), and *Theoretical Biology, Epigenetic and Evolutionary Order from Complex Systems* (1990). He has worked on complex systems for nearly 40 years, in particular, organisms as dynamical systems, global warming and diabetes. He has also written several key papers on the precautionary principle. He is a former Council member and Education Committee chair of the London Mathematical Society and currently Vice-president of the UK Parliamentary and Scientific Committee.



Eva Sirinathsinghji ISIS researcher and staff writer

Eva is researcher at Institute of Science in Society (ISIS) and staff writer for its quarterly magazine *Science in Society*. She obtained her B Sc Biology (2:1 Hons in Neuroscience) from Edinburgh University in 2005, and Ph D in Neurogenetics from King's College, University of London in 2010, and has continued part-time lab work while she interned with ISIS February-August 2011. She is passionate about going beyond the reductionism to the science that serves society, focusing on the effects of corporate science on people's health and welfare.



Mifune Tsuji Violinist and professor

Mifune Tsuji is one of the world's leading violinists, specialising in contemporary music especially the music of Xenakis. She is a professor of violin at Anglia University. Her repertoire is nevertheless vast and varied, from Bach to the music of today. She has worked as an improviser for many years including dates with Earth Music Unlimited.



Rod Youngs, drummer and composer

Rod's musicianship personifies diversity, authenticity, and distinctiveness. Whether playing traditional jazz, world music, or urban contemporary, he seamlessly moves from one genre to another, always preserving stylistic conventions while bringing creativity and individuality.

A native of Washington D.C., Rod began his formal training as a teenager in the DC Youth Orchestra program and continued his studies at Howard University, where he received a Bachelor of Music in Applied Percussion. He also studied with former principal timpanist of the National Symphony Orchestra Fred Begun, and in 1985 was chosen to study jazz performance at the Eastman School of Music in Rochester, N.Y. under the tutelage of Keith Copland.

Over the past two decades, Rod's career reflects his love and passion for the art of music. He has garnered a wide variety of work from concerts and recordings to sessions for radio, TV and film, and has performed/recorded with a formidable array of artists including, Abdullah Ibrahim, Lee Konitz, Hugh Masekela, Gil Scott-Heron, Natalie Cole, Don Braden, Ernest Ranglin, Denys Baptiste, Julian Joseph, Mica Paris, Courtney Pine, Jon Hendricks, Ronnie Laws, Jazz Jamaica All Stars and David Murray.

In addition to performing, Rod is actively involved in music education. He has served as an instructor at the Glamorgan University jazz course and currently provides private instruction for students of all levels and ages. He also conducts performance workshops throughout the UK for the Tomorrows Warriors organization, Serious International Music Producers, The Round House, and the Planet Drum School.