

INSAP VII Contributor Biographies

Patrica Aakhus

Patricia Aakhus was Director of the Centre for Interdisciplinary Studies at the University of Southern Indiana. Her recent publications include *Astral Magic in the Renaissance*; and 'The Gems, Poetry and Patronage of Lorenzo de Medici' in *Magic, Ritual and Witchcraft*, University of Pennsylvania Press. She taught courses in the history of magic and alchemy, and classical and world mythology, and was the author of three novels based on her translations from Old Irish: *The Voyage of Mael Duin*, *Daughter of the Boyne*, and *The Sorrows of Tara*. She presented at INSAP IV and INSAP VI. Sadly she died in 2011.

Daniel Armstrong

**Deakin University and RMIT University.
Melbourne, Australia**

Daniel Armstrong is an Australian based photo-media and installation artist, lecturer and discipline leader in photography at Deakin University. His current research and creative practice explores relationships between the eye of the observer and the lens within the context of observational astronomy, with a specific interest in what it means to observe (through optics) that which is remote and lies beyond. He is also interested in the historical relationships between photography and astronomy, the lens and the telescope and the cultural and philosophical implications of these relationships. He exhibits his work on a regular basis and lives part time in rural Victoria, where he spends his nights imaging the dark skies with homemade and primitive cameras and telescopes. He is currently undertaking a PhD at the Royal Melbourne Institute of Technology, University in Melbourne.

Lucía Ayala

Dr. Lucía Ayala is an art historian who works on the reciprocal relationships of art and science, mainly in the contexts of European Early Modern art and astronomy, contemporary astrophysics and contemporary media art. Her historical research specializes in the visualization of the macrostructure of the universe. In 2011, she completed a PhD in Art History in cotutelle between the Humboldt University of Berlin and the University of Granada. Between 2012-2013, she worked as a postdoctoral researcher at the Office for History of Science and Technology, University of California, Berkeley. Ayala has worked as an assistant professor at the Art History Department, University of Granada, and as assistant director at the Media Center of Art & Design, Barcelona. She

The Inspiration of Astronomical Phenomena VII, special issue of *Culture And Cosmos* (eds. Nicholas Campion and Rolf Sinclair) Vol. 16 no 1 and 2, 2012.
www.CultureAndCosmos.org

was an associate member of the research group "The technical image" at the Hermann von Helmholtz-Zentrum für Kulturtechnik, Humboldt University of Berlin. She collaborates regularly with artists and scientists, mostly around technological discourses and cosmology. She is co-author of the project "Liquid Things", funded by the Austrian Science Fund FWF and hosted by the Art & Science Department of the University of Applied Arts, Vienna. She is a founder member of "Fluid Skies", a collaborative project together with the astrophysicist Dr. Jaime E. Forero-Romero and the artist Yunchul Kim.

Nicholas Campion
University of Wales Trinity Saint David

Nicholas Campion is Senior Lecturer in the School of Archaeology, History and Anthropology, and Director of the Sophia Centre for the Study of Cosmology in Culture at the University of Wales Trinity Saint David. He is course director of the University's MA in Cultural Astronomy and Astrology. His books include the two-volume *History of Western Astrology* (London: Continuum 2008/9), *Astrology and Cosmology in the World's Religions* (New York: New York University Press, 2012) and *Astrology and Popular Religion in the Modern West: Prophecy, Cosmology and the New Age Movement* (Abingdon: Ashgate, 2012). He is the editor of *Culture and Cosmos*, the journal on the history of cultural astronomy and astrology. Current projects include *The New Age in the Modern West* (Bloomsbury, forthcoming), *Cosmos and Purpose* (Ashgate, forthcoming), and the six volume *Cultural History of the Universe* (Bloomsbury, forthcoming), for which he is General Editor.

Alberto Cappi
INAF Osservatorio Astronomico di Bologna

Alberto Cappi, born in Reggio Emilia (Italy) in 1962, earned a high school diploma (classical studies) at the Liceo Classico Vittorio Alfieri in Turin, graduated in Astronomy at Università degli Studi di Bologna and was awarded a Ph.D. in Astrophysics at the Université de Paris-Sud. He is Associate Astronomer of the National Institute for Astrophysics (INAF) at the Observatory of Bologna in Italy, and *Chercheur Associé* at the Observatoire de la Côte d'Azur in France. His main research fields are observational cosmology, the large-scale structure of the universe and galaxy clusters. He is also interested in the history of cosmology and in Hellenistic science. He is member of the SAIIt (Società Astronomica Italiana) and of the IAU (International Astronomical Union; Division J, Galaxies and Cosmology, and Division C, Education, Outreach and Heritage).

Jim Cogswell

Stamps School of Art & Design, University of Michigan

Jim Cogswell is Arthur J. Thurnau Professor of Art & Design at the University of Michigan faculty. While his own studio practice and teaching is based primarily in painting, drawing, and printmaking, he has also worked in ceramic tile and sculpture, video animation, stage design, multi-media installation, and publicly-sited murals using materials as diverse as rubber stamps, adhesive shelf paper, and machine-cut vinyl. His artwork has been exhibited nationally and internationally. During the 1992-93 academic year he was the Charles P. Brauer Faculty Fellow at the University of Michigan Institute for the Humanities and in 1999 he received the Michigan Arts Award. In 2008 he was appointed an Arthur J. Thurnau Professor, in recognition of his outstanding contributions to undergraduate education. Drawn to interdisciplinary projects, Cogswell has collaborated with a number of University colleagues: dancers, composers, scientists, musicians and poets. His interest in astronomical imagery has resulted in a number of recent works for public spaces. He has recently completed a collaborative project with an astrophysicist and a composer titled *Jeweled Net of the Vast Invisible*, a visual and sonic representation of dark matter based on data from the Millennium Simulation.

Clive Davenhall

University of Edinburgh

Clive Davenhall has a long-standing interest in the history of astronomy. Since 2004 he has been the Editor of the Society for the History of Astronomy's twice-yearly Bulletin (previously Newsletter) and he has contributed entries to the Biographical Encyclopaedia of Astronomers. He is currently a Project Manager / Software Developer in the Wide Field Astronomy Unit, Institute for Astronomy, University of Edinburgh, based at the Royal Observatory Edinburgh.

Ulisses Barres de Almeida

Brazilian Center for Physics, Rio de Janeiro

Ulisses Barres de Almeida holds a Bachelor in Physics and M.Sc. in Astronomy from the University of São Paulo (2006) and a Ph.D. in Astrophysics from the University of Durham, England (2010), where he worked on the H.E.S.S. experiment for Gamma-ray Astronomy. Between 2010 and 2012, Dr. Barres was a postdoctoral researcher at the Max-Planck-Institut für Physik in Munich, Germany, where he remains as an external associated researcher and member of the MAGIC Collaboration. Dr. Barres is currently responsible for the group building the Cherenkov Telescope Array (CTA) at the Brazilian Center for Physics in Rio de Janeiro, an international Consortium of over 25 countries who are constructing the largest future facility for ground-based Gamma-ray Astronomy. He is also chief-editor and co-founder of the online interdisciplinary periodical *Euresis Journal* and Fellow of the Institute of Advanced Studies (IAS) of Durham, UK.

Christian Etheridge
University of Aarhus

Christian Etheridge completed his MA in Scandinavian Languages and Literature at the University of Aarhus, where he focused on medieval literature. He has continued his research at the University of Copenhagen where he has been mainly working on medieval Icelandic scientific manuscripts, especially those that focus on astronomy.

Aidan Foster
University of Wales Trinity Saint David

Aidan Foster read Chemistry at Memorial University in Canada and was awarded a BSc in 1979. He spent the next 15 years in scientific research after which he became Computer Officer at the University of Cambridge UK, where he is currently located. In 1989 he came across the work of John Addey and his theory of harmonics, which led to a lifelong appreciation of the sky and its meanings inherent in both ancient and popular culture. He is currently working on an MA in Cultural Astronomy at the University of Wales Trinity Saint David

Raúl Gabellone
Institute for Astronomy and Space Physics

Raúl Gabellone is the system manager at the Institute for Astronomy and Space Physics (IAFE) in Buenos Aires, Argentina.

Beatriz García
ITeDA and National Technological University-Mendoza

Beatriz García is a member of the Pierre Auger Observatory (for the study of Ultra High Energy Cosmic Rays) International Collaboration, and vice director of the Instituto de Tecnologías en Detección y Astropartículas (ITeDA). She is currently vice president of Commission 46 of the IAU, and vice chair of the new NASE Project. She teaches astronomy and physics in High School as well as at the University. During 2009 she was part of the National Node for IYA2009 in Argentina. Since 2005 she has organized the Erathosthenes Project in Latin America, for the measurement of the dimension of Earth (UTN and University of Buenos Aires).

Lynda Harris
Independent scholar

Lynda Harris has degrees in history and the history of art from Bryn Mawr College, Boston University, and the Courtauld Institute of Art, London. From 1976-92 she taught diploma classes in Renaissance art, and classes in art and mythology for the University of London extra mural department (now affiliated to Birkbeck College). She also taught history of art at HM Prison Wandsworth for five years. From 1993 she has been engaged mainly in writing and research,

with occasional lectures at various venues. Her publications include *The Secret Heresy of Hieronymus Bosch* (Floris Books 1995 and 2002), and *The Cathars and Arthur Guirdham* (PsyPioneer, 2001 and 2014).

Michael Hoskin

Churchill College, Cambridge

Michael Hoskin lectured in history of astronomy at Cambridge University from 1959 until his retirement in 1988. He founded the Journal for the History of Astronomy in 1970 (it is now in its 45th year) and is still the editor. He is a Fellow of Churchill College Cambridge, emeritus Fellow of St Edmund's College Cambridge, Honorary Fellow of the Royal Astronomical Society, and holds medals of the American Astronomical Society and the European Society for Astronomy in Culture. The International Astronomical Union has named an asteroid Minor Planet Hoskin, and the authorities at the archaeological site at Antequera, Spain, have named a building Centro Solar Michael Hoskin. He is the author of eight books and numerous articles on the Herschels.

Chris Impey

University of Arizona, Tucson, Arizona, USA

Chris Impey is a University Distinguished Professor and Deputy Head of the Department, in charge of all academic programmes. His research interests are observational cosmology, gravitational lensing, and the evolution and structure of galaxies. He has 170 refereed publications and 65 conference proceedings, and his work has been supported by over \$20 million in grants from NASA and the NSF. As a professor, he has won eleven teaching awards, and has been heavily involved in curriculum and instructional technology development. Impey is a past Vice President of the American Astronomical Society. He has also been an NSF Distinguished Teaching Scholar, a Phi Beta Kappa Visiting Scholar, and the Carnegie Council on Teaching's Arizona Professor of the Year. Professor Impey has written over thirty-five popular articles on cosmology and astrobiology and co-authored two introductory textbooks. His popular books include *The Living Cosmos* and *Talking About Life*, on the topic of astrobiology, and *How It Ends* and *How It Began*, on cosmology. With Holly Henry, he wrote a book about iconic NASA missions called *Dreams of Other Worlds*, and most recently he has written a book about teaching cosmology to Tibetan monks, called *Humble Before the Void*. He was a co-chair of the Education and Public Outreach Study Group for the Astronomy Decadal Survey of the National Academy of Sciences. In 2009, he was elected a Fellow of the American Association for the Advancement of Science.

Tayra M. Carmen Lanuza Navarro
Instituto de Historia de la Medicina y de la Ciencia “López Piñero”
(CSIC-Universidad de Valencia)

Tayra M.C. Lanuza Navarro holds a Ph.D. in History of Science from the University of Valencia, obtained in 2005 with the doctoral dissertation ‘Astrology, science and society in Hapsburgs’ Spain’. She is currently a postdoctoral researcher (JAEdoc fellow) at the Institute for the History of Medicine and Science of the Spanish National Council for Scientific Research (CSIC). She obtained the MA in Cultural Astronomy and Astrology from Bath Spa University and her History degree at the University of Valencia, where she has worked as associate professor of History of Science. She is currently working on ideas related to astrology of early modern astronomers, cosmographers and physicians, and participating in the research project *La cultura médica ante su público: la representación de la medicina en el teatro del Siglo de Oro* [HAR2009-11030-C02-02], underwritten by the Spanish Ministry of Science and Innovation, on the representation of science and medicine in early modern literature. This project looks at the representation of medical and scientific practices in the Theatre of the Golden Age of Spanish Literature. She has published several papers on the practice of astrology in early modern Spain, from the point of view of history of science, the most recent of them focused on prophecy and politics as related to celestial novelties from 1572 to 1618, and the representation of astrological medicine in golden age theatre.

Euan MacKie
National Museums of Scotland

Euan MacKie graduated in Archeology & Anthropology, (Cambridge 1959). He excavated Maya sites in the then British Honduras from 1959 to 60 and worked in the Hunterian Museum, University of Glasgow, as Curator of Archaeology and Anthropology from 1960 to 1998, and as deputy director for the last few years. He has a PhD (Glasgow 1974), an FSA and FSA (Scot). His research interests include the early ethnographical collections of the Hunterian Museum (particularly from Cook’s voyages), the Iron Age of Atlantic Scotland, especially the evolving material culture (and the question of whether it shows foreign influences) and the drystone towers known as brochs. He has conducted several major excavations in this field. He has also conducted several small surveys into the problem of what level of skill in astronomy and geometry existed in Neolithic Britain. His bibliography includes over 120 items.

Toby MacLennan
Rutgers University

Toby MacLennan is an Associate Professor in the Visual Arts Dept., Mason Gross School of the Arts, Rutgers University. Her films have won awards at The New York Film Festival, Brussels International Film Festival, Ohio Film Festival, Louisville Film Festival and the annual festival of experimental film at

The Chicago Art Institute. The Galerie Articule in Montreal hosted a retrospective of her films. Her book, *I Walked out of 2 and Forgot It*, was published by The Something Else Press and reviewed by The New York Times. John Cage wrote a Sample/foreword for another of her books, *Singing the Stars*, published by The Coach House Press. Her manuscript, *Am I in Heaven Yet*, was a finalist for the Writers at Work Fellowship Competition. This work won an honorable mention in the Isaak Dinesen Creative Non-Fiction Contest.
www.tobymaclennan.com

Merja Anneli Markkula
University of Turku

Merja Anneli Markkula, PhD, born in 1952 in Säskylä, Finland, is an adjunct professor in developmental biology at the University of Turku, Finland, and artist, curator, creative producer and founder of Kuusisto Art Manor / Kuusiston Taidekartano. She has studied in Finland, Canada, Hungary, Italy and the Vatican. Her scientific work in biology has been published in 23 papers in peer-reviewed journals, 6 review articles, 35 abstracts, and 17 popular articles. Her artistic work follows a manuscript, including a hypothesis and working plan, made in 2001 and to be finished by 2021. From 2012 she has been working in the chapter entitled 'There is no human life without culture and no life without water'. Markkula has made 13 solo art exhibitions, 12 in Finland and one in Rome, Italy. She has participated 58 group exhibitions in the EU, USA, and Asia, and given workshops in Germany, Italy, and the UK. She selects her materials and methods according to the expressive needs of her artistic plan and previous results of her artistic work. From 2009 her work has focused in local and global issues around water, the questions of ownership and the use of natural resources and human responsibility. She lives with and works in Kaarina, Finland. Dr. Markkula's performance art includes *Home - kodin valitsin, art/sci with molds, yeasts, and microscope*, at the Riihimäki Art Museum in Riihimäki, Finland, 11.1.2014; *Art work called Cafe*, including an art toilet, *Water circulation*, performed for 63 days at the Kuusisto Art Manor in Kaarina, Finland, 2013; *Valentine* 14.2.2013, in Berlin, Germany; *Transmutations, microscopic jam session* performed with sound artist Kirill Lorech and commissioned for the opening of BioFilia at Aalto University in Helsinki, Finland, 1.2.2013; in *Vol.at.ilit.y* by Tomi Paasonen, a background performance with a microscope, at the Barker theater in Turku, Finland 2011; and *Fairwell flowers to clean drinking water*, in Virttaanharju, Alastaro, Finland, 2010. Markkula's site-specific art includes *There is no human life without culture and no life without water*, part of an exhibition by 28 artists which she curated at the Kuusisto Art Manor in Kaarina, Finland, 2013; *Independent Love*, sculpture, NYT2011:together in Naantali, Finland, 2011; *Opposite to Dominion*, sculpture, NYT2011:together and *Sky watching place*, sculpture, NYT2011:together in Raisio, Finland, 2011; and *Death Gowns for a Disappearing Lake* in Virttaanharju, Alastaro, Finland, 2009. Markkula's group exhibitions include

Living art at the Riihimäki Art Museum in Riihimäki, Finland, 2013; *In movement – Im Bewegung*, in Göttingen, Germany, and Mouzon, France, 2013; *Il feltro dello sciamano – sulle orme di Joseph Beuys*, in Feltrosa, Biella, Italy, 2012; *I'm but water, Halikonlahti Green Art III*, at the Salo Art Museum in Salo, Finland, 2011; INSAP VII, Bath, UK, 2010; and *In the Eye of the Hurricane*, in Tampa, Florida, USA, 2008. One of her 13 solo exhibitions is *Every 5th may not see the Milky Way – family life*, at the Cruselli Art Center in Uusikaupunki, Finland, 2009.

www.kuusistontaidekartano.fi

Leonid Marsadolov

The State Hermitage Museum

Leonid Marsadolov has worked at the State Hermitage Museum since 1978. He is Curator of the Siberian archaeological collection in the Department of Archeology and specialises in the field of the Early Nomads of South Siberia. He was Head of Sayan-Altay Archeological Expeditions of the State Hermitage Museum in the period 1985-2008. He has a diploma in History and Archaeology (Saint-Petersburg University, 1978); is Doctor of History (Moscow, 1985) and Professor of Culturology (Saint-Petersburg-Moscow, 2000). He has experience in archeology, history, cultural astronomy, dendrochronology and geography; he is a member of the Russian Geographical Society (St.-Petersburg) since 1992. He has published 350 articles and 8 monographs and has participated in many scientific conferences and symposia.

Andrea Martocchia

Istituto Nazionale di Astrofisica, Rome.

Andrea Martocchia is a physicist specialising in High Energy Astrophysics and Gravitation. He has dealt in particular with X-ray spectral analysis of compact binaries and active galactic nuclei (AGN) and, in a more theoretical approach, the problem of radiation transfer in the spacetime of spinning black holes (Kerr metric). Together with his collaborators, he has performed fully-relativistic computations and developed new software packages for fitting real data from accreting objects, such as AGN and galactic black hole candidates (iron line profiles, Compton reflection). In recent years he has conducted research on historical observations of supernovae and their identifications, the history of astronomy, and cultural Astronomy. He is currently working as an expert technician in the evaluation of physical agents (acoustics, vibrations, electromagnetic fields -EMF-, microclimate, optical radiation).

Michael Mendillo

Boston University

Michael Mendillo is Professor of Astronomy at Boston University. He heads a research group in the Centre for Space Physics that studies the upper atmospheres of the Earth, moons, comets and planets. Optical observations are

made using in-house designed and built wide-field, low-light-level imaging systems to study sub-visual aurora and airglow at Earth and the escaping sodium exospheres of the Moon, Mercury, Io and comets. Planetary ionospheres are observed using GPS methods and radars at Earth and satellite-based radio occultation experiments at Mars, Saturn and Venus. Professor Mendillo has a large collection of antiquarian astronomical charts and maps that are the basis of his studies in the history of astronomy. The Mendillo Collection forms an exhibition that travels under the title *Celestial Images*, managed by the Boston University Art Gallery. Professor Mendillo has served in various administrative roles at Boston University and on advisory committees at NASA, NSF, Department of Defense laboratories and the U.S. National Academy of Sciences.

Paolo Molaro

INAF-Osservatorio Astronomico di Trieste

Paolo Molaro, born in Artegna (Ud) in 1955, is married and father of four children; his eldest daughter Margherita is also an astronomer. He is professor/astronomer at the INAF Trieste Astronomical Observatory, where he was director from 2001 to 2003. He graduated from the University of Trieste with Margherita Hack and took his PhD at SISSA with Dennis Sciama. He is author of over 300 publications covering a wide range of interests including observational cosmology, the variability of fundamental physical constants, astronomical instrumentation and the history of astronomy.

Paul Murdin

Institute of Astronomy, University of Cambridge

Paul Murdin is a Senior Fellow at the Institute of Astronomy, Cambridge, Treasurer of the Royal Astronomical Society and Visiting Professor at Liverpool John Moores University. He was formerly a research astronomer, working at the Anglo-Australian Observatory and on La Palma, amongst other places, and a scientific administrator for the Particle Physics and Astronomy Research Council (of blessed memory) and the British National Space Centre. He has a secondary career as a populariser of astronomy. His most recent book *Secrets of the Universe* is published by Thames & Hudson.

Roberta J.M. Olson

The New-York Historical Society

Roberta J. M. Olson received her Ph.D. from Princeton University. She is currently Curator of Drawings at the New-York Historical Society, and Professor Emerita of Art History at Wheaton College in Massachusetts. Among the exhibitions Olson has curated during her tenure at the New-York Historical Society are “Seat of Empire”; “Drawn by New York: Six Centuries of Watercolors and Drawings”; and the acclaimed three-part series “Audubon’s Aviary: The Complete Flock” (2013–2015) at the New-York Historical Society. Her books and exhibition catalogues include: *Fire and Ice: A History of Comets*

in Art; Italian Renaissance Sculpture; Fire in the Sky: Comets and Meteors, the Decisive Centuries, in British Art and Science (co-authored with Jay Pasachoff); and the award-winning *Audubon's Aviary: The Original Watercolors for "The Birds of America"*.

**David Pankenier
Lehigh University**

David W. Pankenier, Ph.D. (Asian Languages, Stanford University, 1983) is Professor of Chinese at Lehigh University, Bethlehem, Pennsylvania. He is best known for research focusing on the connection between astronomical phenomena and epoch-making political and cultural developments in ancient China: 'The awe-inspiring presence of the sky has left its imprint on human culture at all times and in all places. The artificial environment we have succeeded in creating around ourselves, while insulating us from the elements and enabling our modern lifestyle, also insulates us from the sky to a degree unprecedented in human history. One unfortunate result is an impoverished appreciation of how profoundly astronomical phenomena have influenced art, myth, cosmology, time-reckoning, literature, and the built environment.' David Pankenier's current research interests focus on the history of ideas in ancient China, especially cultural astronomy. His most recent book is *Astrology and Cosmology in Early China: Conforming Earth to Heaven* (Cambridge University Press, 2013).

Jay M. Pasachoff

Hopkins Observatory at Williams College in Williamstown

Jay M. Pasachoff is Field Memorial Professor of Astronomy and director of the Hopkins Observatory at Williams College in Williamstown, Massachusetts. He has been President of the Commission on Education and Development of the International Astronomical Union and Chair of the Astronomy Division of the American Association for the Advancement of Science. He is Chair of the IAU's Working Group on Solar Eclipses and Chair of the History of Astronomy Division of the American Astronomical Society. He is the author and co-author of textbooks in astronomy, author of the Field Guide to the Stars and Planets, and co-author with Roberta Olson of *Fire in the Sky: Comets and Meteors, the Decisive Centuries, in British Art and Science*. He is a veteran of 59 solar eclipses.

Silvina Pérez Álvarez

Institute of Technology in Detection and Astroparticles (ITeDAM)

Silvina Pérez Álvarez is an Industrial Designer, a graduate of the National University of Cuyo, Mendoza. She is a Masters student in 'Sustainable Development of Human Habitat' at the National Technological University-Faculty Mendoza. Since 2006, she has been a member of the Pierre Auger

Laboratory and ITeDAM in Mendiza, which conducts different transfer and dissemination to society projects in the sciences such as the design of interactive modules, posters, and brochures. She is also an assistant in the implementation of the System of Quality Management at the Institute, under ISO 9001 Standards.

Aaron Plasek
New York University

Aaron Plasek works at the intersection of literature, history of science, media, and computation. He holds an MFA in Writing from the School of the Art Institute of Chicago and bachelor degrees from Drake University in Physics, Astronomy, and English Writing. Having taught literature and composition at Colorado State University, Metropolitan State University of Denver, and elsewhere, he is pursuing an MA in the Humanities and Social Thought program at New York University where he is currently writing a history of machine reading spanning from the 17th century to the present.

Vito Francesco Polcaro
Institute of Space Astrophysics and Planetology, INAF, Rome, Italy

Vito Francesco Polcaro, born in 1945, is a graduate in Mechanical Engineering and Mathematics (General Relativity) and a Doctor in Aerospace Engineering. He is Associate Researcher at the Institute of Space Astrophysics and Planetology (INAF, Rome, Italy); a member of the Astronomy and Cultural Heritage Centre at the University of Ferrara (Italy); and Research Associate of the Dublin Institute of Advanced Studies in Ireland. He is author of about 300 articles and 3 books on Stellar Spectroscopy, High Energy Astrophysics, Aerospace Technologies, Historical Astronomy and Archaeoastronomy. Currently, his main fields of study are the evolution of very high mass stars, the astronomical contents of Bronze Age monuments and the collection and interpretation of information of astrophysical interest from ancient documents.

Steven Renshaw
Center for Asian and Pacific Studies, University of Iowa

Steven Renshaw is Adjunct Professor in the Center for Asian and Pacific Studies at the University of Iowa, Iowa City, Iowa, USA. He has a BA in mathematics and an MA and PhD in communication and social psychology. He has conducted research in the history of astronomy in Japan as well as the significance of astronomical phenomena in the history and development of Japanese culture. Articles have appeared in *Archaeoastronomy: the Journal of Astronomy in Culture*, *Griffith Observer*, *Astronomy Across Cultures*, and the *Biographical Encyclopedia of Astronomy*.

Estela Reynoso

**Institute for Astronomy and Space Physics (IAFE), CONICET-UBA, and
Physics Department at the University of Buenos Aires**

Estela Reynoso is a researcher at the Institute for Astronomy and Space Physics (IAFE) in Buenos Aires as a member of the National Council of Scientific and Technological Research (CONICET, Argentina). She teaches physics at the Exact and Natural Sciences School at the University of Buenos Aires. Since 2011, she has presented the full show "Astronomy in the movies" at different cities in Argentina.

Francis Ring

**University of Glamorgan, Trustee of the William Herschel Museum, Bath
UK**

Francis Ring is Professor in the School of Computing in the Medical Computing Research Group, University of South Wales. He was President of the William Herschel Society for 20 years and is a Trustee of the William Herschel Museum in Bath. He is a Fellow of the Royal Astronomical Society, the Institute of Physics and Engineering in Medicine and the Royal Photographic Society.

Michael Rowan-Robinson

Imperial College, London

Michael Rowan-Robinson has worked in all the astronomical wavebands, but especially in infrared and submillimetre astronomy, and in cosmology. He was Head of Astrophysics at Imperial College from 1993-2007 and President of the Royal Astronomical Society from 2006-8. He was the first recipient of the Institute of Physics' Hoyle Medal in 2008. He is the author of textbooks, including *Cosmology*, and of popular astronomy books, including *Universe*, *Ripples in the Cosmos*, and *Night Vision*.

Govinda Sah – ‘Azad’

Independent Artist

Govinda Sah – ‘Azad’ was born in 1974 Rajbiraj, Nepal. From an early age I was interested in drawing and sculpture, and spent most of my time drawing and sculpting copies of Hindu Gods from photos and sculptures. After High School my parents were set on the idea that I should study science, so after my school exams in 1991 I ran away from Rajbiraj to Delhi, India. I spent the years from 1991-94 as a signboard and wall painter. In 1995 I returned to Kathmandu and joined the Fine Art College. That was a big moment of my life, I realised my dream to become a painter and I hurried to learn everything as fast as possible. During College I had several group shows and exhibitions. My first solo exhibition was in 1999 which was successful, and the Professor and Campus Chief of the Fine art College and prominent artist Govinda Dangol dubbed me as "Lion Heart". That exhibition included my 27ft X 9ft commissioned work that was later displayed in Hannover, Germany and Austria in 2000. Following that

first solo exhibition, I began a nation-wide solo cycle tour to spread the awareness of peace through art under the title “The 21st Century is the Century of Art and Peace”. During that 3-month tour I held several art shows, workshops, and gave lectures in schools, and to community groups. Following the cycle tour of Nepal, I travelled and held solo exhibitions in Mumbai, India, and Dhaka, Bangladesh. I then graduated with a BA in Fine Art in 2003. For my further study I joined the MA Fine Art course in Dhaka, Bangladesh in 2006 but relatively soon thereafter I got the chance of private sponsorship and moved to the UK to study. I qualified with an MA in Fine Art from Wimbledon College of Art in 2008. To date I have held 22 solo art exhibitions and group shows in Nepal and internationally. I have also co-coordinated a number of Art Workshops under the sponsorship of the UN and Bangladesh Embassy in Nepal.

Voula Saridakis
Lake Forest College

Voula Saridakis is Senior Lecturer in the Department of History at Lake Forest College (near Chicago, USA) where she teaches European history, the history of science, and women in modern history. Her PhD thesis (Virginia Polytechnic Institute and State University, 2001) was entitled *Converging Elements in the Development of Late Seventeenth-century Disciplinary Astronomy: Instrumentation, Education, Networks, and the Hevelius-Hooke Controversy*. Her research interests include early modern astronomy, scientific institutions in the seventeenth century, and the history of women in astronomy. Her article ‘The Hevelius-Hooke Controversy in Context: Transforming Astronomical Practice in the Late Seventeenth Century,’ was recently published in *Johannes Hevelius and His World*, edited by Richard L. Kremer and Jarosław Włodarczyk (Warsaw: Polish Academy of Sciences, 2013). She is currently revising an article on Elisabetha Hevelius, astronomical assistant and wife of the famous seventeenth-century astronomer, Johannes Hevelius.

Rolf Sinclair
Centro de Estudios Científicos, Chile

Rolf Sinclair's activities have been principally in the physical sciences, and he has been involved in research in physics, astronomy, and glaciology. After a research career in the US and Europe, which included a year at the Culham Laboratory in the UK, he served as an administrator of scientific projects at the US National Science Foundation. He now holds adjunct appointments in the Glaciology/Climate Change Group at CECS in Chile, and in the Physics department at the University of Maryland. He has also been active, on a part-time basis, in the study of the astronomically-inspired practices of the Pre-Columbian peoples of the US Southwest. He has a strong interest in the cultural and artistic impact of astronomical and other natural phenomena throughout human history. This has led to the present study of how one artist could

successfully capture transient astronomical phenomena at a time when they could not be photographed successfully.

Inga Elmqvist Söderlund

**Royal Swedish Academy of Letters, History and Antiquities;
Department of Art History at Stockholm University**

Inga Elmqvist Söderlund, Ph.D., is a Research fellow at The Royal Swedish Academy of Letters, History and Antiquities and affiliated to the Department of Art history at Stockholm University. From 2011 to 2013 she worked on the post-doc project *Scientific instruments in 18th century Europe – Display, Visual effect and Aesthetical Experience?* based at the Museum for History of Science at Oxford University; in 2013 she was Sackler Short-Term Fellow at Royal Museums Greenwich with the project *18th century astronomical demonstration instruments and user experience*. From 1996 to 2013 she was curator and director of the Observatory Museum in Stockholm. She has written on and curated several exhibitions on early modern art and science.

Felicity Spear

Independent Artist

Felicity Spear has been a practising and exhibiting artist for the past twenty-five years. Trained as a teacher, she went on to develop a professional art practice, combining this with further university study. She completed an MA by Research at RMIT University in Melbourne in 1999. In 2007 she completed a PhD at Monash University with a project titled *Extending vision: mapping space in light and time*. Spear received an Australian Post-Graduate Award as well as a Post-Graduate Travel Grant, which, in 2004, assisted her to further her research at the National Maritime Museum at Greenwich. In 2005-6 her work was exhibited in the UK. To coincide with the International Year of Astronomy in 2009, Spear curated two exhibitions, *Sky Lab*, and *Beyond Visibility: light and dust*, together with noted astro-photographer David Malin, and the highly regarded indigenous artist Gulumbu Yunupingu. Spear was included also in the National Gallery of Victoria exhibition *Shared Sky*. Since then she has curated a further two *Sky Lab* exhibitions with a number of Australian and international artists. Spear has had two independent residencies at the Cité Internationale des Arts in Paris and been short-listed in a number of prizes, as well as receiving grants for collaborative work with other artists in Australia and the UK. She is an associate member of the research network AEGIS (Art, Ecology, Globalization and the Interpretation of Science), www.rmit.edu.au/art/research/aegis.

More information about her work can be found at www.felicityspear.com.

Vanessa Stanley
Independent Artist

Vanessa Stanley is interested in the interfaces between art and science, in particular astronomy and physics. Stanley explores and reinterprets the hidden and intangible aspects of the environment and scientific research. The fascination of these intangible ‘spaces’, which impel us to question our existence, are explored through the concepts of observation, surveillance, ways of seeing, framing, abstraction and interaction. These tools are used to intrigue and engage the viewer, to ultimately touch and transform perceptions of the world. Born in 1954 in Surrey, England, Stanley emigrated to Australia with her parents in 1955. Educated in Brisbane, Queensland, she subsequently worked in various private and Government offices as a stenographer and secretary. After years of drawing and painting in her spare time, Stanley began a Fine Arts Degree at the Queensland College of Art at Griffith University in Brisbane in 2005. As an undergraduate, her passion gradually focused on sculpture, intermedia, installation and video. Continuing onto Honours, Stanley was awarded First Class Honours with an additional award, the Griffith Award for Academic Excellence. Since then, Stanley has exhibited internationally in China, Japan and England and nationally and locally in Australia.
www.vanessastanley.blogspot.com

Emily Urban
Rutgers University

Emily Urban is a Fulbright and Samuel H. Kress scholar with a PhD in Art History from Rutgers University in New Jersey. Her dissertation, *The Sala Bologna in the Vatican Palace: Art and Astronomy in Counter-Reformation Rome*, examines the astrological ceiling fresco in the Sala Bologna as a case study for reassessing the relationship between art, science, and spirituality in Early Modern Italy. Currently she is working on a monograph entitled *Understanding Heaven: Depicting God’s Space in the Age Before Galileo*.

Gisela Weimann
Independent artist

Gisela Weimann was born in Bad Blankenburg, Germany, and lives in Berlin. She studied painting at Universitaet der Kuenste, Berlin; printmaking and experimental photography at the Royal College of Art, London; and film and photography at the San Francisco Art Institute. The breadth and variety of her artistic forms of expression and working techniques range from painting and printmaking, photography and film, mail art, installations and environments to multimedia projects, performances and art in public spaces. She leaps over the boundaries between artistic genres by means of intercultural and interdisciplinary co-operation with artists from theatre, music and film, as well as with researchers from various disciplines. Weimann’s work has been shown extensively in Germany and internationally including exhibitions, sound installations and multi-

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media performances: *My shadow remains*, monographic exhibition at the House of Art in Brno/Czech Republic (2014); *Beginning End Here Now*, retrospective exhibition at the Kunsthalle Brennabor in Brandenburg an der Havel/Germany (2013); *Dialogue*, Casablanca Biennale in Casablanca/Morocco (2012); *Memorias*, Palacio de la Mosquera, Arenas de San Pedro/Spain (2011); *La Noche Blu*, performances with music by Pauline Oliveros and Marcelo Toledo at Teatro Fondamenta Nuove in Venice/Italy and exhibition at galerie futura in Berlin/Germany (2010); *Motoristická*, Cesta Festival 'Undercovered', Tabór/Czech Republic (2009); *Four Winds Ballet I/Aurora*, Body Navigation Festival in St. Petersburg/Russia (2008); *Frida a los 100 años*, 100 watercolours from the Mexican Diary, Haus am Kleistpark in Berlin/Germany (2007); *Transatlantic Impulses*, Martin-Gropius-Bau, Berlin/Germany (2005); *Opera for 4 Buses*, Museum Island Festival in Berlin/Germany (2001); *Memory Frames*, PhotoEspaña in Madrid/Spain (1999); *Windows on Wilshire*, Los Angeles County Museum in Los Angeles/USA (1997); *Garden of Memories*, installation and performance with composer Witold Szalonek at the Muzeum Kulczyckich in Zakopane/Poland (1996); *Aussen vor*, installation and performance at the New National Gallery Berlin with composer Franz Martin Olbrisch (1989). In 2002 she received the German Critics Prize for visual art.

Gary Wells

Ithaca College, New York, USA

Dr Gary Wells is an associate professor in the Department of Art History at Ithaca College. He teaches modern European art and visual culture, as well as courses on chemistry and art, art historical theory, and the city of Paris. His research areas include the intersections of art and science in the modern era, nineteenth century French painting, modern art in the city of Paris, and the uses of technology in teaching and researching art history. He is a member of the International Executive Committee of INSAP.

Matthew Whitehouse

South Carolina State Museum

Astronomy educator, organist, and composer *Matthew Whitehouse* currently serves as Observatory Manager at the South Carolina State Museum in Columbia, USA. Before his appointment at the Museum, Whitehouse was active in several astronomy education programs in the Tucson, Arizona area, including Kitt Peak National Observatory public outreach programs and summer Astronomy Camps sponsored by The University of Arizona. Much of Whitehouse's work as an organist and composer focuses on linking music and astronomy, and engaging audiences in thinking creatively about music/science connections. His compositions have been performed throughout the United States, and at Notre Dame Cathedral and St. Sulpice Church in Paris, France. His organ work *Pleiades Visions* (2012) takes inspiration from traditional and indigenous music and mythology associated with the night sky. Whitehouse

holds the Doctor of Musical Arts Degree in organ performance, with a minor in ethnomusicology, from The University of Arizona. In addition to his position at the South Carolina State Museum, Whitehouse serves as Director of Music at St. Alban's Episcopal Church in Lexington, South Carolina.

Sir Arnold Wolfendale FRS
University of Durham

Professor Sir Arnold Wolfendale FRS is Emeritus Professor in the Department of Physics at the University of Durham and is former Astronomer Royal. He is the author (with A. D. Erlykin) of Models for the origin of the knee in the cosmic-ray spectrum as well as numerous journal articles.

Courtney Wrenn
Independent Artist

Courtney Wrenn presented in the INSAP VII (Bath, UK, 2010) and Archetime (NY, 2009) conferences, has published in "Infinite Instances" (2011) and the Bushwick Biennial (cat., 2009); and is thoroughly invested in radical freedom from the known, observing thought, and participating in the work of transforming consciousness. As an artist, she creates large original photomontage works, and has a diverse professional background in interdisciplinary art event production and public science and astronomy programs. Having received the graduate fellowship to the Mount Ryal School of Art for MFA study (2006-2008, Maryland Institute College of Art), "scrap" dedicates herself to intensive daily practices exploring the cultural and psychological functions of Astrophotography and aerial photographic imaging-- from the 19th century into our prolifically imaged contemporary times. In addition to over five years of delivering live astronomy Andrus Planetarium star shows at the Hudson River Museum, she assists a rotating roster of Artist clients on digital video, book, and installation projects. Recent exhibitions and Residency Fellowships include, "Bronx Calling: The First AIM Biennial" (Bronx Museum of the Arts, 2011), Arts@Renaissance (Brooklyn, 2012), the Constance Saltonstall Foundation for the Arts (Ithaca, NY, 2013), the Vermont Studio Center (Johnson, VT, 2013), and Chashama at the Brooklyn Army Terminal (NY, 2013-14). Wrenn's time-based experimental projects have included various architectural video projections, interactive walking tour theater in the East Williamsburg Industrial Park (a resident since 2001), numerous immersive transformations of transitional real estate in the New York area (chashama, et al, 2003-8), and public installations at the former mid-town Donnell Library (chashama, 2010) and with a public sculpture commission on Randall's Island (Flow.12, 2012).

Please see www.scrapworm.info for further information.