



United Nations
Educational, Scientific and
Cultural Organization



INTERNATIONAL YEAR OF ASTRONOMY 2009

Opening Ceremony
Paris, 15–16 January 2009

International Year of Astronomy 2009

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UNESCO

Message from UNESCO Director-General

As lead UN agency for the Year, UNESCO will work with the International Astronomical Union and other partners to make the initiative a success. In particular, we will encourage citizens of the world, especially young people, to learn more about the universe in which we live and to explore the links that astronomy provides between the scientific and cultural spheres.

UNESCO's Member States give high importance to science education as a driver of sustainable development and economic growth. Astronomy, the 'first science', teaches us about the basic sciences – mathematics, physics – which are fundamental to understanding the universe, its stars and planets, including the earth. The UNESCO Space Education Programme encourages the introduction of astronomy and other space-related subjects into the school curriculum and will implement activities that enhance knowledge in these fields through the IYA2009 Cornerstone Projects.

Under the World Heritage and Astronomy Initiative, UNESCO works to raise awareness of the importance of astronomical heritage worldwide, in terms of its enrichment of human history, the promotion of cultural diversity and the enhancement of international exchange. From World Heritage sites such as the ancient Neolithic monuments of Stonehenge, to the most recent Large Hadron Collider experiment led by the European

Organization for Nuclear Research (CERN) which aims to throw light on the origin of the universe, people have always looked to the sky for answers to the questions 'How did we get here' and 'Why are we here'.

The sky belongs to everybody. Astronomy is and can be an instrument to promote peace and understanding among nations and as such is at the heart of UNESCO's mission. I wish all of you every success for the Year.

Message from IAU President

Dear friends, colleagues and astronomy enthusiasts,

Welcome to the International Year of Astronomy 2009! It has taken many years of planning and organising, but we are finally ready to embark on what is destined to be a year full of discovery and wonder.

The International Astronomical Union launched 2009 as the International Year of Astronomy (IYA2009) under the theme, The Universe, Yours to Discover. IYA2009 marks the 400th anniversary of the first astronomical observation through a telescope by Galileo Galilei. Proclaimed by the UN and endorsed by UNESCO, IYA2009 has already captured the imagination of countless individuals.

This Opening Ceremony will certainly launch the Year in style. There are representatives present from over 100 countries, including students specially selected to attend. Nobel prize winners and top scientists are on hand to lend their expertise, and we will even have a live video conference with the European Very Large Telescope in Chile, to hear from researchers at the cutting-edge of science.

This ceremony, and indeed the entire IYA2009, would not have reached this stage without the support of thousands of

groups and individuals around the world. In particular, I would like to thank our Global Sponsors, Thales Alenia Space and Celestron, whose belief in IYA2009 has been unwavering.

I would also like to take this opportunity to give thanks to the many Organisational Associates who have pulled together to make the Year possible. Our Media Partners have been busy helping to spread the message of IYA2009 far and wide, so I offer my sincere thanks to them.

Astronomy is one of the oldest fundamental sciences, yet continues to make a profound impact on our culture and is a powerful expression of the human intellect. This is the year in which we can all make a difference, popularising astronomy as never before and bringing it to the masses. Remember that this Opening Ceremony is merely the beginning; the best is yet to come. The International Year of Astronomy 2009 is yours to discover!

Programme

Eagle Nebula
(NASA/ESA Hubble Space Telescope)

Thursday, 15 January

8 a.m.– 9 a.m. Registration and open visit to the exhibitions in the Miro Hall

Morning session

9 a.m.- 10.15 a.m. – Inauguration

- Opening remarks by UNESCO Director-General, Mr. Koichiro Matsuura
- International Year of Astronomy: Vision and Goals by Mrs Catherine Cesarisky, President, International Astronomical Union
- Remarks by Reynald Sez nec, President and CEO of Thales Alenia Space
- Greetings by government ministers and important personalities

10.15 a.m.– 10.45 a.m. Coffee break

10.45 a.m.– 12 p.m. Astronomy: History and Culture

Chair: Jean-Claude Carrière

- The Skies of the World, a Multicultural Experience, Franco Pacini (Italy)
- The First Astronomers: Astronomy over Four Millennia, Juan Antonio Belmonte (Spain)
- Mayan Astronomy, Julieta Fierro (Mexico)
- Islamic Astronomy, George Saliba (USA)
- Astronomical Exploration and the Public Imagination, Baruch Blumberg (USA)

12 p.m. – 12.30 p.m. From Galileo (400 years) to Apollo (40 years)

Chair: Jean-Claude Carrière

- From Galileo to Einstein, Françoise Balibar (France)

12.30 p.m. – 2 p.m. Lunch break

Afternoon session

2 p.m.– 3 p.m. (continuation of From Galileo (400 years)...))

Chair: Tim de Zeeuw

- The New Frontier: The Exploration of the Solar System, André Brahic (France)
- Echoes of Creation: Discovery of the Big Bang Fossil Radiation, Robert Wilson (USA)

3 p.m. – 3.30 p.m. Modern Astronomy: Discoveries on our Origins

- From a “simple” beginning to our complex cosmos, Lord Martin Rees (UK)

3.30 p.m.– 4 p.m. Coffee break

4 p.m. – 5.30 p.m. (continuation of Modern Astronomy...)

Chair: Jan Palous

- A Multitude of Worlds: Extrasolar planets, Michel Mayor (Switzerland)
- IYA2009: Astronomy for Humankind, Cornerstones and Universe Awareness, Kevin Govender (South Africa)
- Video and news from the South Pole Concordia Research Station, presented by Yves Frenot, Institut Paul Emile Victor (France)

Evening

7.p.m.- 9.30 p.m. Reception at the Palais de la Découverte

- Video clip of «Around the World, Around the Sky» by Robert Pansard-Besson (France)
- Film on the Adler Planetarium presented by José-Francisco Salgado (USA) with the music “The Planets” by G. Holst

Friday, 16 January

8.30 a.m.– 9.00 a.m. Open visit to the exhibitions in the Miro Hall

Morning session

9.00 a.m.- 9.30 a.m. Video-conference with working stations

Chair: Beatriz Barbuy

- Live video-conference with astronomers in the European Very Large Telescope in Paranal, Chile
- Virtual visit of the European Southern Observatory (ESO) and imaging session using one of the 8m telescopes

9.30 a.m. – 10.30 a.m. (continuation of Modern Astronomy...)

- The Biggest Question of All: The Search for Extraterrestrial Life, André Brack (France)
- The Question of Parallel Universe, Hubert Reeves (Canada)

10.30 a.m. – 11 a.m. Coffee break

11 a.m. – 12.30 p.m. Stars: Life and Death

Chair: Gang Zhao

- Pulsars: Progress and Puzzles, Jocelyn Bell Burnell (UK)
- Beautiful Death for a Star: Planetary Nebulae, Sylvia Torres-Peimbert (Mexico)
- Cosmic Explosions: The Violent Supernovae, Ken'ichi Nomoto (Japan)

12.30 p.m. – 2 p.m. Lunch break

Afternoon session

2 p.m. – 3.30 p.m. Black holes and Space

- Report from the Abyss: Massive Black Holes, Reinhard Genzel (Germany)
- Astronomy from Space: The Hubble and James Webb Space Telescopes, Jonathan Gardner (USA)
- Cosmic Vision, David Southwood (ESA)
- Closing remarks by Walter Erdelen, Assistant Director-General for Natural Sciences, UNESCO

3.30 p.m. – 4 p.m. Coffee break

4 p.m. – 5.30 p.m. Remote observing and VLBI (3 parallel sessions)

- Remote observing in Hawaii with Canada-France-Hawaii Telescope (CFHT)
- HI-21 cm radio observation of the Milky Way with Salsa Telescope in Onsala, Sweden
- Global e-VLBI demonstration
- (One cosmic source will be observed continuously for 24 hours with radio telescopes on 6 continents, streaming data in real time to the correlator in the Netherlands via high-bandwidth fibre networks.)

Evening

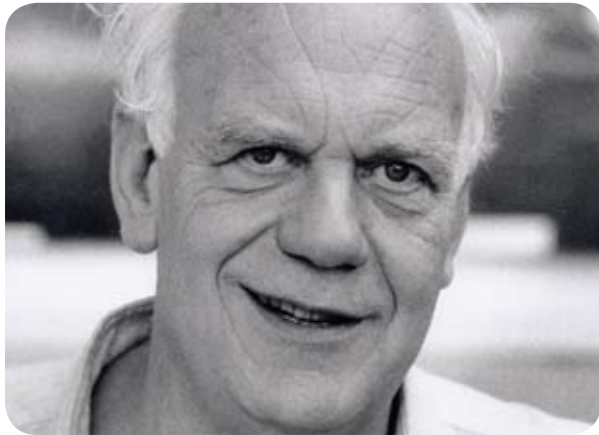
6 p.m. – 7.30 p.m. Reception at the Foyer of Room I hosted by UNESCO

7.30 p.m. – 9.30 p.m. Cultural event

- “Sun Rings” performance by the Kronos Quartet with the participation of the UNESCO Choir

Speakers

The Cone Nebula and the Christmas Tree star cluster
ESO (MPG/ESO, 2.2 m WFI)



Franco Pacini (Italy)

The Skies Of The World, A Multicultural Experience

People have always been fascinated by the stars and by celestial phenomena. Different civilisations have projected their beliefs, their hopes and fears onto the sky. Astronomy offers various opportunities to promote multicultural respect, especially among children. We shall summarise one particular example of this activity, developed at the Arcetri Astrophysical Observatory in Florence.

Biography

Franco Pacini is Professor of Astrophysics at the University of Florence (Italy) and has carried out research, mostly in high energy astrophysics, in Italy, France, the United States and at the European Southern Observatory. He was Director of the Arcetri Astrophysical Observatory between 1978 and 2001, and President of the International Astronomical Union from 2001 to 2003. He is a member of Accademia Nazionale dei Lincei.

Notably, he predicted the existence of strongly magnetised, rotating neutron stars in 1967, before the discovery of pulsars. Together with Martin Harwit, in 1975, he has also interpreted ultraluminous infrared galaxies as evolutionary stages of massive star formation. He is a strong promoter of astronomical education, especially among children.



Juan Antonio Belmonte (Spain)

The First Astronomers: Astronomy Over Four Millennia

What do the prehistoric dolmens of the Iberian Peninsula, the cyclopean constructions of the ancient Mediterranean islands, the moai of Easter Island or the Egyptian pyramids have in common? Undoubtedly, they all are magnificent structures built with gigantic stones, but they are also linked by the long-term aim of their constructors for a correct orientation in time and space. Astronomy was the simplest tool to achieve that purpose. In our short presentation, we will provide a few sketches of how humanity has looked at the sky for thousands of years to create calendars or to orient sacred buildings appropriately, in an ongoing search for the metaphysical aspects of life, death and renewal.

Biography

Dr. Juan Antonio Belmonte Avilés is an astronomer at the Instituto de Astrofísica de Canarias (Tenerife, Spain) where he has lectured on the history of astronomy and archaeoastronomy, and he carries out research into exoplanets, stellar physics and cultural astronomy. He has published or edited a dozen books and authored nearly 200 publications on those subjects. Currently, he is President of the European Society for Astronomy in Culture (SEAC) and of the Spanish Time Allocation Committee (CAT) of the Canarian observatories. In recent years he has carried out extensive research on the astronomical traditions of ancient civilisations, concentrating on the ancient Mediterranean cultures, notably in Egypt.

He was born in Murcia (Spain) in 1962, graduated in physics from Barcelona University in 1985 and obtained his PhD in astrophysics at La Laguna University in 1989.



Julieta Fierro (Mexico)

Mayan Astronomy

The Mayan culture spread across a vast area, including South-East Mexico and part of Central America. Their society was governed by the demands of seasonal rains and slave-labour, since they had no draft or pack animals. Therefore, they needed a precise and empirical calendar to organise many aspects of their lives, including agriculture, commerce and the siting of buildings.

Mayan astronomers used the Sun and the planets for their calendar. They were especially interested in Venus; evidence suggests that they reported its transit on one of the bas-reliefs at the Mayapan site. They also constructed observatories such as the Caracol to study certain alignments. Ball games and the layout of the ball courts in the area were also linked to astronomical alignments such as the equinoxes. However, the most popular event is the "descent of the serpent" at Chichen-Itza, where a shadow cast by the largest pyramid simulates a snake during the equinoxes.

Biography

Dr Fierro holds a research position at the Astronomy Institute of the Universidad Nacional Autónoma de México. She is dedicated to outreach, and has written 40 popular science books, two of which include topics on Mayan astronomy. She appears every week on television and radio and writes articles on the importance of informal public education. She has received dozens of awards, including the Kalinga Prize for the Popularization of Science at UNESCO in Paris.



George Saliba (USA)

Islamic Astronomy

In this illustrated talk, I will discuss the main astronomical issues that were raised in Islamic civilisation and their critical relationship to the preceding Greek astronomical theory. I will also illustrate the resulting proposed alternatives to Greek astronomy and their impact on European astronomy at the time of the Renaissance. The main focus will deal with the relationship between Copernican and Islamic astronomy, which I have already touched upon in my latest book, *Islamic Science and the Making of the European Renaissance*, 2007 (Cambridge MA: MIT Press).

Biography

George Saliba is Professor of Arabic and Islamic Science at Columbia University (New York).

Professor Saliba studies the development of scientific ideas from late antiquity up until early modern times, with a special focus on the various planetary theories that were developed within the Islamic civilisation and the impact of such theories on early European astronomy.

His recent research deals with some of the latest findings regarding the transmission of astronomical and mathematical ideas from the Islamic world to Renaissance Europe during the fifteenth and sixteenth centuries.

Speakers

The Cone Nebula and the Christmas Tree star cluster
ESO (MPG/ESO, 2.2 m WFI)



Françoise Balibar (France)

From Galileo To Einstein

Four hundred years ago Galileo Galilei, by pointing his telescope at the Moon and planets in the night sky, and highly influenced by Copernicus's train of thought, made the observations that abolished the previously well-established cosmic separation between the Earth (a place for decay, death and sin) and the Heavens (a world of intrinsic and absolute perfection). As Koyré put it, humanity had taken a definite step towards emancipation — from a closed world, enclosed in a crystal sphere, rotating about a centre, to an infinite Universe, the uniform open expanse of acentric Euclidean space. Mathematics that, up to then, had been restricted to the understanding of the movements of celestial objects became relevant to terrestrial phenomena. Three hundred years later, Albert Einstein, having worked out his general theory of relativity, realised that his theory, first intended as one of gravitation, was in fact a theory of the Universe itself, making cosmology a branch of physics. Trying to carry through Mach's principle in the framework of his theory, Einstein built a static Universe in which matter is evenly distributed, as a possible solution of the mathematical equations of gravitation, provided they include a constant (the so-called cosmological term). This had the effect that this first relativistic model of Universe, although it extends from eternity to eternity, thereby excluding any idea of creation by any transcendental will or power, implies that matter is distributed in a topologically closed three-dimensional space — in contrast to the topologically open Euclidean space provided by Galileo's theory.

So the way from Galileo to Einstein can appear as a return to the closed world from which humanity is supposed to have escaped, with so much sound and fury, three hundred years earlier. As we all know, physics (and therefore humanity) has found a way out of this paradox. There is still a lesson to be learned from this story, a lesson about the way the worldview one inherits is entwined with scientific practice, for better or for worse. A lesson about not being mistaken by the "purity" of scientific knowledge.

Biography

F. Balibar was born in 1941. She is Professor Emeritus in Physics at Paris Diderot University.

She was in charge of the French edition and translation of the selected works of Albert Einstein, *Oeuvres choisies* (6 vol.), 1985-1995, (Paris: Le Seuil/ CNRS). She is a co-author with Jean-Marc Lévy-Leblond of *Quantique Rudiments*, 1st edition, 1984, (Paris: Inter-Éditions, now available at Dunod) and translated into English, *Quantics: Rudiments in Quantum Physics*, 1990, (Amsterdam: North Holland). Her most recent book (in collaboration with Raffaella Toncelli) is *Einstein, Newton, Poincaré. Une histoire de principes*, 2008, (Paris:Belin).



André Brahic (France)

The New Frontier: The Exploration Of The Solar System

For the first time in history, we are leaving our terrestrial cradle using robotic space probes. For centuries, the planets of the Solar System were only points of light in the sky. Now, they are revealing many diverse phenomena and an unsuspected wealth of information. Gamma and X-rays, ultraviolet and infrared radiation, radio and millimetre waves, all invisible to our eyes, are now captured by our instruments and we are discovering an active Universe, far from the serene vision of the visible sky. The exploration of the Solar System is a way to a better understanding of our own Earth from comparisons between the planets. We are living through the third major revolution in our knowledge of the sky after those of the Ancient Greeks and the scientific renaissance of the 17th century. Endless comparisons between theory and observations are the only way to progress.

In the 1980s, the giant planets were visited by the Voyager probes, which revealed fascinating worlds. Both spacecraft have now left the Solar System and are moving into interstellar space.

The Cassini–Huygens mission reached Saturn on 1 July 2004 and is currently studying the rings, the satellites and the planet itself showing unexpected geysers on Enceladus, lakes on Titan, mountains on Iapetus, bizarre shapes in the rings, gigantic Saturnian cyclones, strange small satellites, arcs around Saturn and many other wonders.

Now, after centuries of controversy, we have a better understanding of the origin of the planets and are on the eve of discovering other Earths and, maybe, even new kinds of life over the next few centuries.

Biography

André Brahic is a Professor at the University of Paris Diderot and a Senior Scientist at the French Atomic Energy Committee (C.E.A.). He first worked on supernovae, the theory of chaos and galactic dynamics in the 1960s. In the 1970s he proposed the first model of velocity dispersion in Saturn's rings. He discovered the rings of Neptune in 1984. He was a co-investigator of the Voyager missions and he is now a member of the Cassini Imaging Team. He is currently studying planetary rings and the formation of the Solar System.

Over the past 40 years, André Brahic has published more than 200 articles. He is one of the pioneers of French planetology. He has chaired a number of committees associated with space science, culture and education. These include, in the 1990s, chairing the Society of French Professional Astronomers and of the planetologists of the International Astronomical Union. He was a member of the committee in charge of the definition of the word "planet". Thirty years ago his name was given to an asteroid located 2.8 astronomical units from Earth. He has founded three laboratories and has been the thesis advisor for many students. He is known for his active promotion of scientific culture. He has participated in several hundred television shows and radio broadcasts. He is also the author of several books for general readership, including, in 2000, the best-selling *Enfants du Soleil*, translated into eight languages. His last book *Lumières d'Étoiles* was published in 2008 with Isabelle Grenier. Among several awards and honours, he received the Carl Sagan prize in 2000 and the Jean Perrin prize for science communication in 2006.

Speakers

The Cone Nebula and the Christmas Tree star cluster
ESO (MPG/ESO, 2.2 m WFI)



Robert W. Wilson (USA)

Echoes Of Creation: Discovery Of The Big-Bang Fossil Radiation

Prior to the 20th century, cosmology was the study of objects in the Universe, not the physics of the Universe as a whole. In this talk I will briefly review the development of cosmology in the first half of the 20th century. I will then discuss the discovery of the cosmic microwave background radiation by Arno and me at Bell Labs and several near misses, which preceded us. I will close with an overview of the current understanding of our Universe.

Biography

Robert W. Wilson is a Senior Scientist at the Smithsonian Astrophysical Observatory of the Harvard Smithsonian Center for Astrophysics in Cambridge Massachusetts. He is technical leader of the Sub-Millimeter Array, a recently completed 8 element synthesis radio telescope.

Dr. Wilson received a BA from Rice University in 1957 and a PhD from the Caltech in 1962. After a one year postdoc at the Caltech, he joined Bell Laboratories. From 1977 until 1994 Dr. Wilson was Head of the Radio Physics Research Dept. in Holmdel, NJ.

His early work was in the fields of Galactic radio astronomy and precision measurement of radio source strengths. He was a co-discoverer in 1964 of the 3K cosmic background radiation which originated in the Big Bang and for which he shared the 1978 Nobel Prize in Physics. In 1970 he and his co-workers discovered a number of interstellar molecules including carbon monoxide in the 2-3 mm band. This opened up the study of molecular clouds and star-forming regions.

He is a member of the American Astronomical Society, the American Academy of Arts and Sciences, the International Astronomical Union, the International Union of Radio Science, the American Physical Society, the National Academy of Sciences.



Martin Rees (UK)

From A "Simple" Beginning To Our Complex Cosmos

Our Universe started off in a hot, dense and almost uniform state. As it expanded and cooled, the first atoms formed. Structures then emerged, leading to the formation of galaxies, stars and planets. Thanks to the use of ever more powerful telescopes on the ground and in space (allied to more powerful computers) astronomers are starting to understand the properties of the complex cosmos in which we live.

Biography

Martin Rees is Professor of Cosmology and Astrophysics at the University of Cambridge, Astronomer Royal, and President of the Royal Society. He has, with many collaborators, contributed to our understanding of galaxy formation, black holes, cosmology and high energy astrophysics.

The author of more than 500 research papers, Martin Rees has made important contributions to the origin of cosmic microwave background radiation, as well as to galaxy clustering and formation. His studies of the distribution of quasars proved to be a nail in the coffin of the steady state theory. He was one of the first to propose that enormous black holes power quasars. He is also a well-respected author of books on astronomy and science, intended for general readership.

Martin Rees is the winner of a large number of rewards and prizes, among them the Gruber Prize in Cosmology (2001) and the Crafoord Prize in 2005 with James Gunn and James Peebles.

On 22 July 2005, he was elevated to a life peerage, sitting as a crossbencher in the House of Lords. On 6 September, he was created Baron Rees of Ludlow.



Michel G. Mayor (Switzerland)

A Multitude Of Worlds: Extrasolar Planets

The discovery of planets orbiting other stars has turned an old philosophical discussion on the plurality of worlds into an object of study in current astrophysics. Over the last thirteen years more than 300 exoplanets have been detected, with masses covering the range of gaseous giant planets, icy planets and recently, rocky planets. These discoveries have revealed the impressive diversity of exoplanet orbital properties. Such diversity has induced a profound revision in the theory of the formation mechanisms of planetary systems. Combining observations from various techniques, we have already acquired an insight into the internal structure of these exoplanets, as well as the very first characteristics of their atmosphere. But are we able to detect planets similar to our Earth?

Biography

Dr. Michel G. Mayor, born in Switzerland, is a Professor of Astronomy at Geneva University. He is the co-discoverer, with Didier Queloz, of the first extrasolar planet orbiting a Sun-like star, 51 Pegasi, and has discovered more than 100 additional planets and planetary systems. Among his recent discoveries is a planetary system with three "Super-Earths".

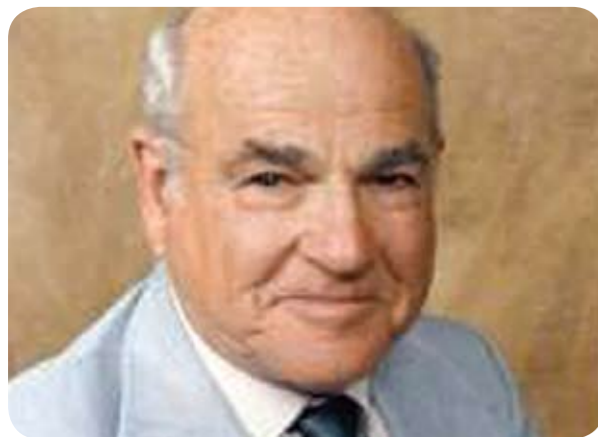
From 1998 to 2004, he was the Director of the Geneva Observatory. Dr. Mayor is the Principal Investigator of a large survey to search for planets in the Southern Hemisphere at the European Southern Observatory at La Silla, Chile. Part of this survey is devoted to the search for Earth-like planets.

Dr. Mayor has served on numerous astronomy committees and boards. In 2006, he was the founding president of the IAU commission on exoplanets. He was the Swiss delegate to the ESO Council from 2003-7, and from 1998-1991, President of the IAU Commission 33 on Structure and Dynamics of the Galactic System. He has authored or co-authored several hundred scientific publications.

Among his many awards and recognitions, mention must be made of the 2000 Balzan Prize, the 2004 Albert Einstein Medal and in 2005, the Shaw Prize in Astronomy. In 2008 he was named an Associate Fellow of the Royal Astronomical Society. Professor Mayor is a foreign Associate of the French Academy of Sciences.

Speakers

The Cone Nebula and the Christmas Tree star cluster
ESO (MPG/ESO, 2.2 m WFI)



Baruch S. Blumberg (NASA, USA)

Astronomical Exploration And The Public Imagination

Astronomical exploration responds to the human need to understand its place in nature and in the cosmos. Society is prepared to fund the instruments needed to continue the endless quest urged on by the limitless reach of the human imagination. The search is reaching to the possible origins of the universe and to the origins of life. Parallel with the probes into space time are the biological investigations at molecular and atomic dimensions, to the beginnings of organic life from space matter and to the origins of the genome, that contain much of their history within them.

Biography

Baruch S. Blumberg is a Distinguished Scientist at Fox Chase Cancer Center, Philadelphia, PA and University Professor of Medicine and Anthropology at the U. of Pennsylvania. He served as the Founding Director of NASA Astrobiology Institute (1999–2002), Senior Advisor to the NASA Administrator (2000–2001), and as Principal Scientist of the NASA Division of Fundamental Space Biology (2003–2004). He was on the staff of the National Institutes of Health, Bethesda, MD, (1957 to 1964), Associate Director for Clinical Research at Fox Chase Cancer Center (1964–1986) and Master of Balliol College, Oxford University (1989 to 1994). He earned an M.D. from the College of Physicians and Surgeons, Columbia University NY (1951), and a D. Phil (Biochemistry) from Oxford U. (1957). He has been President of the American Philosophical Society since 2005.

He was awarded the Nobel Prize (1976) for “discoveries concerning new mechanisms for the origin and dissemination of infectious diseases” and specifically, for the discovery of the Hepatitis B Virus. In 1993, he and his co-inventor Irving Millman, were elected to the National Inventors Hall of Fame for their invention of the hepatitis B vaccine and the diagnostic test for hepatitis B. He has been a Visiting Professor in India (Bangalore), U. Singapore, U. of Kentucky, Indiana U., the U. of Otago, New Zealand, and Stanford U.



Kevin Govender (South Africa)

Astronomy For Humankind, Cornerstones And Universe Awareness

In our quest for answers to the greatest mysteries of the Universe it is our responsibility as human beings not to overlook the challenges faced by life on our own planet. This presentation addresses the question of what astronomy, and thus IYA2009, means for the development of humanity. Even though astronomy may appear remote from someone with an empty stomach, it has always managed to remain an integral part of cultures and traditions across the world, regardless of ethnicity, nationality or economic standing. Perhaps that is because astronomy has the innate ability to inspire people and to stimulate our natural human curiosity. The IYA2009 is an opportunity to use this great unifying, inspiring and stimulating subject to impact directly on the minds of people all over the world, specifically in developing regions, and more specifically the very young.

Biography

Kevin Govender is the manager of the Southern African Large Telescope (SALT) Collateral Benefits Programme at the South African Astronomical Observatory. He is the single point of contact for the International Year of Astronomy in South Africa, and Chair of the regional task group for the development of Astronomy in Africa. He is also Chair of one of the 11 Global Cornerstone projects for the International Year of Astronomy, entitled Developing Astronomy Globally, and a member of the Executive Committee Working Group for the global co-ordination of the International Year of Astronomy.



José-Francisco Salgado (USA)

Astronomical Pictures At An Exhibition

This is a suite of high definition videos that takes viewers through a virtual gallery featuring awe-inspiring, art-like images and science visualisations of the cosmos as well as Salgado's own astronomy-inspired artwork. As the camera moves towards the works of art, audience members find themselves entering space through pictures and flying past Earth, planets, stars, black holes and galaxies. As in his earlier production, on Gustav Holst's The Planets, Dr Salgado pays close attention to the tone and tempo of the music, resulting in an experience in which the music and visuals reinforce each other instead of competing for the viewer's attention.

Biography

Dr José-Francisco Salgado is an astronomer and science visualiser at the Adler Planetarium in Chicago. Formally trained in physics (BS, Univ. of Puerto Rico) and astronomy (PhD, Univ. of Michigan), he uses his skills in astronomy education and the visual arts to create multimedia works that communicate science in engaging ways. His education and outreach efforts include Spanish-language programmes, an Emmy-nominated astronomy TV news segment, and critically acclaimed astronomy video suites created to accompany live performances of classical music concerts. By the end of 2009, the video suites will have been presented more than 25 times in ten countries. Lately Salgado, an avid photographer, has been experimenting with high dynamic range imaging, time-lapse, infrared, and fisheye photography, as well as with stereoscopic photography and video to enhance his multimedia works.

Through his artwork, Salgado seeks to create visually appealing images to provoke curiosity and a sense of wonder about the Earth and the Universe. His artwork, video work, photographs, and illustrations have been published in magazines and science books, and shown in San Juan, Chicago, Philadelphia, Walnut Creek (San Francisco Bay Area), Belgrade, Melbourne, Athens, and Piestany (Slovakia). He is currently working on concepts for more video suites, which will be produced by his company Vectors & Pixels Unlimited.



André Brack (France)

The Biggest Question Of All: The Search For Extraterrestrial Life

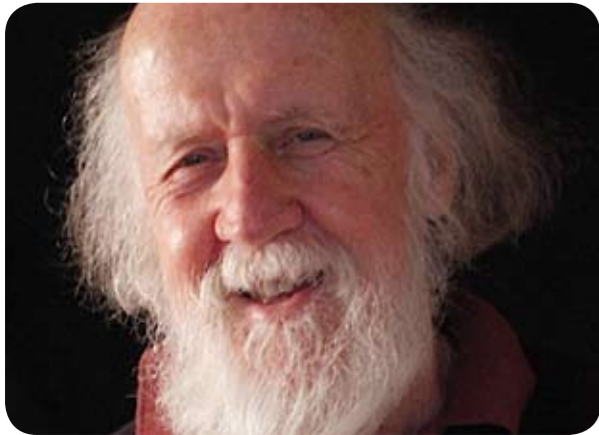
The search for a second genesis is supported by the long-lasting popular questions “Is there life out there?” “Are we alone?” as well as by the scientific need to understand the origin of terrestrial life. By demonstrating, in 1953, that it was possible to form amino acids from a mixture of simple gases, Stanley Miller raised the ambitious hope that chemists would be able to recreate primitive life in a test tube. Despite the tremendous efforts of chemists, the dream has not yet been accomplished. The chances of success will obviously depend upon the simplicity of the chemical reactions leading to life. The discovery of a second genesis of life on another celestial body would demonstrate the ubiquity of living matter and would suggest rather simple origins of life. What should we look for, where and how? These are the questions that will be addressed.

Biography

André Brack is an astrobiologist. He is the honorary director of research at CNRS, Centre de Biophysique Moléculaire, Orléans, where he established an exobiology team. Together with his team he continues to search for extraterrestrial life and to study the origins of life. A former President of the International Society for the Study of the Origin of Life and former President-founder of the European Network of Astrobiology, he is an honorary member of the NASA Astrobiology Institute and expert for exobiology at CNES, the French space agency.

Speakers

The Cone Nebula and the Christmas Tree star cluster
ESO (MPG/ESO, 2.2 m WFI)



Hubert Reeves (France)

The Question Of Parallel Universes

Are there other universes, distinct and separate from our own? This question is highly topical today among physicists and cosmologists. What are the arguments in favour of the existence of a "multiverse" in which our world is just one among an infinite number of other universes where the laws of physics could be different? What is the credibility of these arguments? Where do we stand today on this subject?

Biography

Hubert Reeves is an astrophysicist. He graduated with a BS from the Université Montreal in 1953, obtained an MSc from McGill University, Montreal 1955, and a PhD from Cornell University, Ithaca, NY in 1960. He was Scientific Adviser to the NASA Institute for Space Studies, New York, 1960-64 and Directeur de Recherches at the Centre National de la Recherche Scientifique, CNRS, Paris, 1965, and Associate Professor at the Physics Department, Université de Montreal.

His subjects of research are mainly nuclear astrophysics, cosmology, the origin of the chemical elements, the Solar system and the Universe. Hubert Reeves devotes a substantial fraction of his time to public outreach, and has written a great number of best-sellers. He also frequently participates to television shows, such as the Night of the Stars, with a wide success.

He is now deeply involved in the preservation of our living environment, advocating actions for sustainable development. He is President of the Ligue ROC pour la Préservation de la Faune Sauvage.



Jocelyn Bell Burnell (UK)

Pulsars - Progress And Puzzles

This talk will review our understanding of pulsars (neutron stars) and point to some of the current fascinating puzzles about these objects.

Biography

Jocelyn Bell Burnell is best known for her role in the discovery of pulsars. She is a Visiting Professor in Astrophysics, University of Oxford, with a continuing fascination with pulsars/neutron stars. She is currently the (first female) President of the UK's Institute of Physics.



Silvia Torres-Peimbert (Mexico)

A Beautiful Death For A Star: Planetary Nebulae

Planetary nebulae are glowing shells of gas that have attracted the attention of astronomers and the general public for their beauty and diversity. They are the final stages in the life of intermediate mass stars similar to the Sun. With larger and better telescopes, observations at all wavelengths and more powerful modelling capabilities, we have acquired a better understanding of these objects. The talk will focus on recent results on this topic.

Biography

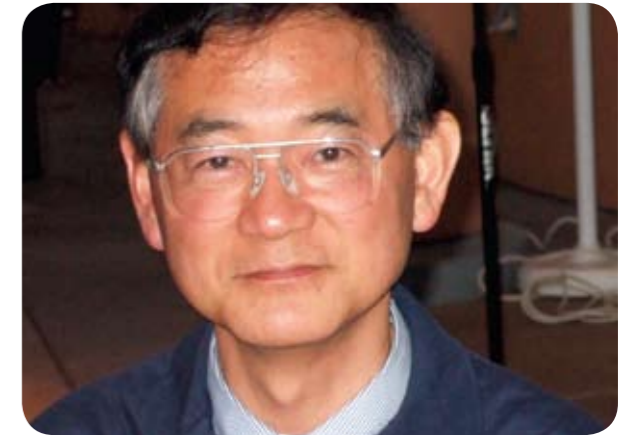
S. Torres-Peimbert is Professor at the Instituto de Astronomia of the Universidad Nacional Autonoma de Mexico. She obtained her Ph.D. at the University of California Berkeley in 1969. Since then she has returned to her home country and been working at the University of Mexico in Mexico City.

Positions in Societies: Vice-President of the International Astronomical Union (2000-6), Council of the American Astronomical Society (1988-90); Board of Directors of the Astronomical Society of the Pacific (1981-84).

Honours: Academic Medal, Sociedad Mexicana de Fisica; Premio Universidad Nacional, UNAM; Premio Nacional de Ciencias.

Other activities: Editor of Revista Mexicana de Astronomia y Astrofisica (1974-98) and of Revista Mexicana de Astronomia y Astrofisica (Serie de Conferencias) (2001-).

Membership: Mexican Academy of Sciences; Mexican Physical Society; American Astronomical Society; Astronomical Society of the Pacific; International Astronomical Union; Academy of Sciences for the Developing World.



Ken'ichi Nomoto (Japan)

Cosmic Explosions: The Violent Supernovae

The supernova of the year 1572 marked a milestone in the history of science: Danish astronomer Tycho Brahe concluded from his accurate observations of the "new star" in Cassiopeia that it must be located far beyond the Moon. This contradiction to the Aristotelian ideal that change in the sky could only occur in the sub-lunar regime ultimately led to the abandoning of the idea of the immutability of the heavens. Besides the general importance of supernovae as the main producers of heavy elements and as probes for the physics of the Universe, using the light echoes of the explosion to look back in time and reveal what exactly happened in the November 1572 make our findings highly appealing to a broad scientific and non-scientific audience.

Using very modern spectral observations with 8.2 m Subaru telescope, it is now possible to study the light echo of the supernova of 1572, which Tycho Brahe observed with the naked eye. These results, published in Nature, and their implications are also directly connected to the current hot topic of cosmology.

Biography

Ken'ichi Nomoto is Professor of Astronomy at the Institute for the Physics and Mathematics of the Universe (IPMU), University of Tokyo. He graduated with a PhD from the Dept. of Astronomy, University of Tokyo. His main research areas are theoretical studies of stellar evolution, supernovae, gamma-ray bursts and the origin of the elements.

Awards: Nishina Memorial Prize and the Japan Academy Prize

Speakers

The Cone Nebula and the Christmas Tree star cluster
ESO (MPG/ESO, 2.2 m WFI)



Reinhard Genzel (Germany)

Report From The Abyss: Massive Black Holes

Evidence has been accumulating for several decades that many galaxies harbour central mass concentrations that may be in the form of black holes with masses between a few million to a few billion times the mass of the Sun. Measurements over the past two decades, employing adaptive optics imaging and spectroscopy on large ground-based telescopes now confirm the existence of such a massive black hole in the centre of our Milky Way, beyond any reasonable doubt. These data also provide key insights into the properties and environment of the black hole. I will also briefly discuss the cosmological evolution of massive black holes.

Biography

Professor Reinhard Genzel was born on 24 March 1952, in Bad Homburg, Germany. He is presently Managing Director at the Max-Planck-Institut für extraterrestrische Physik, Garching, Germany and a Scientific Member of the Max-Planck Society; a Full Professor in the Physics Department of the University of California, Berkeley, California, USA and an Honorary Professor at the Ludwig-Maximilian University, Munich, Germany.

His main research interests are massive black holes and star formation in galaxies, the Galactic Centre, galaxy formation and evolution, infrared/submillimetre spectroscopy and high resolution imaging and spatial interferometry. Among many awards and honours, he has received the Balzan Prize for Infrared Astronomy, the Petrie Prize of the Canadian Astronomical Society, the Einstein-Medaille der Albert-Einstein Gesellschaft, and the Shaw Prize from the Shaw Prize Foundation, Hong Kong.



Jonathan P. Gardner (NASA)

Astronomy From Space: The Hubble, Herschel And James Webb Space Telescopes

Space-based astronomy is going through a renaissance, with three Great Observatories currently flying: Hubble in the visible and ultraviolet, Spitzer in the infrared and Chandra in X-rays. The future looks equally bright. The final servicing mission to Hubble will take place in 2009 and promises to make the observatory more capable than ever, with two new cameras, and a refurbishment that will allow it to last at least five years. The upcoming launch of the Herschel Space Telescope will open the far-infrared to explore the cool and dusty Universe. We also look forward to the launch of the James Webb Space Telescope in 2013, which will provide a successor to both Hubble and Spitzer. In this talk I will discuss some of the highlights of scientific discovery made with space telescopes in the last ten years and reveal the exciting promise of the next ten years.

Biography

Jonathan P. Gardner is the Chief of the Observational Cosmology Lab and the Deputy Senior Project Scientist for the James Webb Space Telescope at NASA's Goddard Space Flight Center. He got his PhD in 1992 from the University of Hawaii, studying cosmology and the evolution of galaxies using infrared detectors that were being tested for use in the Hubble Space Telescope. After graduate school, Dr. Gardner won a NATO fellowship to pursue postdoctoral research at the University of Durham in the north of England. In 1996 he came to Goddard just before astronauts installed the infrared detectors in Hubble. In addition to conducting research with data from Hubble, Dr. Gardner also helps with the plans for Hubble's successor. The James Webb Space Telescope, scheduled for launch early in the next decade, is designed to study galaxy formation and evolution in the infrared, reaching backwards in time to detect and identify the first light from stars and galaxies in the early history of the Universe.



David Southwood (ESA)

Cosmic Vision – the scientific programme of ESA

Since the 1970s, ESA has coordinated Europe's space science aspirations through a concrete programme of ambitious projects aimed at the understanding of the Universe we live in. ESA's Horizon 2000, Horizon 2000 Plus and Cosmic Vision are consecutive long-term programmes, each spanning about a decade, that have given birth to a wide spectrum of scientific missions in different fields of space research. These range from the deep investigation of the Sun and its influence on Earth, to scientific exploration of the planets and the minor bodies of the Solar System such as comets and asteroids, to the study of the distant Universe and of the phenomena that take place in it.

Major achievements include the first close encounter of Giotto with a comet, the furthest ever landing in the Solar System with Huygens on Titan, the discovery of water-ice beneath the surface of Mars with Mars Express, the first amazing close-up pictures of the Sun with SOHO, as well as the most detailed insights into powerful and exotic phenomena such as supernovae explosions and black holes with XMM-Newton and Integral — just to mention a few.

Cosmic Vision 2015-2025, the next slot in ESA's scientific programme, encompasses advanced missions that will address, with new means, the fundamental questions: How did we get from the Big Bang to where we are now? Are there other worlds elsewhere?

Future plans range from detailed studies of the Sun and solar-terrestrial system, a sample return from a primitive body, searches for extrasolar planets, to a search for dark energy. A return to the outer Solar System and a long-term exploration of Mars are envisaged with NASA. Major steps in astrophysics under study are a major world X-Ray observatory and a gravitational wave observatory.

Biography

David Southwood obtained a PhD in Physics at Imperial College, London, UK. After postdoctoral work in the USA he followed an academic career at Imperial College, ending by being head of the Blackett Laboratory from 1994 to 1997. Over the past 35 years, Professor Southwood has worked on various space missions, including, most recently, being Principal Investigator of the Cassini magnetometer (MAG) through build and cruise phases of the mission (i.e. until 2004). His research interests include geophysics and planetary science. He first joined ESA in 1997 as Head of Earth Observation Strategy, and originated the present Earth Science programme of the agency. After a year in academia, as Regents Professor at UCLA, at ISSI, Bern, and then at Imperial College, he came back to ESA in May 2001 to lead the Agency's Science programme. He was appointed ESA Director of Science and Robotic Exploration in spring 2008.

Exhibitions

Organising Committees

Jewel of the southern hemisphere
ESO

Astronomy: crossroads of science and culture

This exhibition (15 to 23 January) accompanies the launching of the IYA2009 on 15 and 16 January 2009 and the International Symposium on the Role of Astronomy in Culture and Society which will take place in UNESCO from 19 to 23 January 2009. It will feature exhibits of different actors in the field of astronomy and space science, and works of art and heritage inspired by astronomy.

Exhibitors

IYA2009 Cornerstone Project: from Earth to the Universe

National Aeronautics and Space Administration (NASA)

European Space Agency (ESA)

European Organization for Astronomical Research in the Southern Hemisphere (ESO)

Global e-VLBI

BAADER PLANETARIUM GMBH

Centre national d'études spatiales (CNES)

The World at Night (TWAN)

Canada-France-Hawaii Telescope Corporation

Initiative for the International Association of Dark-Sky Parks

The Instituto de Astrofísica de Canarias

Starlight Initiative

Artistic exhibition

An artistic exhibition is being organized within the IAU Symposium 260 "The Role of Astronomy in Society and Culture" (19-23 January), featuring sculptures, paintings, photographs, videos, from a wide variety of artists from around the world, and all inspired by astronomical phenomena.

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- * Ian Robson (IAU, Com 55)
- * Anna Sidorenko-Dulom (UNESCO)

Social Programme

Practical Information



The Gum 29 nebula
ESO

Thursday 15 January

Evening 19:30-21:30

Reception at the Palais de la Découverte

Address from Baruch Blumberg, Nobel Laureate in Medicine, 1976, previously Director of NASA Astrobiology Institute

Film: on Gustav Holst, The Planets, from José-Francisco Salgado (Adler Planetarium, USA)

Friday 16 January

Cocktail reception: 18:00-19:30

Closing ceremony: 19:30-21:30 (open to all)

Cultural event: Performance by the Kronos Quartet

Location and dates

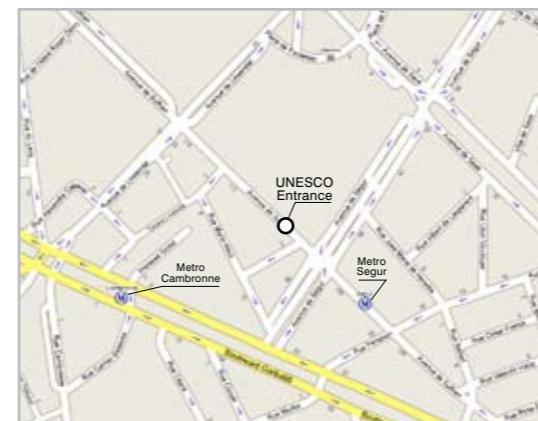
The opening ceremony for the International Year of Astronomy will take place on 15–16 January 2009, at the UNESCO headquarters in Paris, France.

The address is

Maison de l'UNESCO
125 rue de Suffren
75 007 PARIS

Metro (subway):

- SEGUR station (line 10)
- CAMBRONNE station (lines 6 and 8)



IYA2009 Organisational Associates

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Tarantula Nebula
ESO

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European Southern Observatory
www.eso.org
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www.insu.cnrs.fr
- 

Sterrewacht Leiden
www.strw.leidenuniv.nl
- 

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www.scitech.ac.uk
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www.esf.org
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www.dlr.de
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- 

Armagh Planetarium
www.armaghplanet.com
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Nordic Optical Telescope
www.not.iac.es
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Cluster Universe
www.universe-cluster.de
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National Radio Astronomy Observatory
www.nrao.edu

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American Astronomical Society
www.aas.org
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Canadian Astronomical Society
www.casca.ca/
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National Research Council Canada
www.nrc-cnrc.gc.ca/main_e.html
- 

Nederlandse Onderzoekschool Voor Astronomie
www.astronomie.nl
- 

The Society for Popular Astronomy
www.popastro.com/home.htm
- 

National Astronomical Observatory of Japan
www.nao.ac.jp/E
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European Space Agency
www.esa.int
- 

National Aeronautics and Space Administration
www.nasa.gov
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www.cnes.fr/
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NASA Lunar Science Institute
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www.asi.it/en
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www.scnat.ch
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European Astronomical Society
www.eas.unige.ch

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Planetarian
Journal of the International Planetarium Society
www.ips-planetarium.org/planetarian/
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Sky & Telescope
www.skyandtelescope.com
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Astronomy Now
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Physics World
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Astronomy Ireland
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Astronomía
www.astronomia-e.com
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Redshift
www.redshift-live.com
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Seed Magazine
<http://seedmagazine.com>
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Sky at Night Magazine
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Observatoire de Paris



CEA (Centre Energie Atomique)



CNES (Centre National d'Etudes Spatial)



ESA (European Space Agency)



CFHT (Canada France Hawaii Telescope)



Région Ile-de-France

ACHARYA	Jayanta	Nepal Sanskrit University	abscience@gmail.com	Nepal
ACKER	Agnes	Observatoire de Strasbourg	acker@astro.u-strasbg.fr	France
ADAM	Christiane	Observatoire de Paris	christiane.adam@obsmp.fr	France
ADAMS	Mark	National Radio Astronomy Observatory	mtadams@nrao.edu	Usa
AGATA	Hidehiko	National Astronomical Observatory of Japan	h.agata@nao.ac.jp	Japan
AGUILAR HURTADO	Maria Luisa	Facultad de Ciencias	ml_aguilah@yahoo.es	Peru
AL- NAIMIY	Hamid	University of Sharjah	alnaimiy@sharjah.ac.ae	Emirates
AL-NAFISI	Abdulrazzak	UNESCO delegation of Kuwait	dl.koweit@UNESCO.org	Kuwait
AL-SALMI	Yousif	Ministry of Education	alfiky@yahoo.com	Oman
AL-SHIDHANI	Saleh	Oman Astronomical Society	oas@falakoman.org	Oman
AL-SOWAIDI	N. A.	University of Yemen	Nabilaswid@yahoo.com	Yemen
AL-WAHIABI	Mohammed Yousif	Ministry Of Social Development	oas2@falakoman.org	Oman
ALARCON	Minella	UNESCO Science Sector	m.alarcon@UNESCO.org	France
ALDREES	Zlad	UNESCO Saudi Arabia Dlg	dl.arabie-saoudite@UNESCO.org	Saudi Arabia
ALFARO	Emilio	President of Spanish Astronomical Society	emilio@iaa.es	Spain
ALIMI	Jean-michel	Observatoire de Paris, LUTH	jean-michel.alimi@obsmp.fr	France
ALPAR	Ali	Turkish Astronomical Society	alpar@ciabanciuiv.edu	Turkey
ALSHARIEF	Omaima	UNESCO delegation of Sudan	dl.soudan@UNESCO.org	Sudan
ALSHOWAIBI	R. Y.	University of Yemen	rawdshoib@yahoo.com	Yemen
ALVAREZ	Rodrigo	Royal Observatory of Belgium	rodrigo.alvarez@oma.be	Belgium
ALVAREZ POMARES	Oscar	Ministerio de Ciencia	oscar@citma.cu	Cuba
ALVERSON	Keith	UNESCO IOC	k.alverson@UNESCO.org	France
ALVES ALENCAR	Victor	Brazilian Astronomy Olympiad	vitoralen@gmail.com	Brazil
ALVES DE OLIVEIRA	Catarina	Laboratoire d'Astrophysique de Grenoble	Catarina.Oliveira@obs.ujf-grenoble.fr	France
AMELAN	Roni	UNESCO BPI	r.amelan@UNESCO.org	France
ANDERSEN	Johannes	Copenhagen University	ja@astro.ku.dk	Denmark
ANDRESOVAA	Michaela	UNESCO Czech delegation	dl.czech2@UNESCO.org	Czech Republic
ANGEL	Eliette	National Observatory of Chile	eangel@oan.cl	Chile
ANGUMA	Katrini Simon	Faculty of Science	simonanguma@yahoo.com	Uganda
ANISA	Asma	UNESCO Pakistan delegation	dl.pakistan@UNESCO.org	Pakistan
ANNUK	Kalju	Tartu Observatory	annuk@aa.ee	Estonia
ANSARI	Salim	ESA, ESTEC	salim.ansari@esa.int	Netherlands
ANTICHE	Erika	Universidad Lisandro Alvarado	erika_antiche@hotmail.com	Venezuela
ANTICHE	Edwin	Universidad Lisandro Alvarado	erika_antiche2@hotmail.com	Venezuela
APERS	Michel	Thales Alenia Space	michel.apers@thalesalieniaspace.com	France
ARANZANA	Ester	University of Paris	seesaw.est@gmail.com	France
ARATA	Akio	UNESCO ERC	a.arata@UNESCO.org	France
ARCAND	Jonh	IYA2009 FETTU Cornerstone	johnny_a@yahoo.com	Usa
AREVALO	Ciro	COPUOS Chair	ciroarevalo1@yahoo.com	Austria
ARGANDONA	Gonzalo	ESO, European Southern Observatory	gargando@eso.org	Chile
ARICO	Salvatore	Science Sector	s.arico@UNESCO.org	France
ARIDJIS	Homero	UNESCO delegation of Mexico	dl.mexique@UNESCO.org	Mexico
ARION	Douglas	Hedberg Disting. Prof. of Entrepreneurial Studies	darion@carthage.edu	Usa
ARLOT	Jean-eudes	Observatoire de Paris	jean-eudes.arlot@imcce.fr	France
ARRIVETZ	Patrick	Comite Jeux Mathematiques	arrivetz@club-internet.fr	France
ARROU	Armelle	UNESCO BPI	a.arrou@UNESCO.org	France
ARSLAN	Ozgun	Erciyes University	ozgunarslan08@gmail.com	Turkey
ASPLUND	Martin	Max Planck Institute	asplund@mpa-garching.mpg.de	Germany
ATIENO KITOTO	Victoria	University of Nairobi	atistoto@gmail.com	Kenya
ATIENO ODONGO	Diana	University of Nairobi	atieno.odongo@gmail.com	Kenya
AUDOUZE	Jean	Astrophysical Institute	audouze@iap.fr	France
AULIO	Maxime	Compositeur	maxime.aulio@caramail.com	France
AUSTIN	Margaret	New Zealand Commission for UNESCO	austinme@xtra.co.nz	New Zealand
AVALOS	Luis Fernando	Paraguay Ambassador	paraguay.ambassade@wanadoo.fr	Paraguay
BAAN	Marieke	NOVA, Research School for Astronomy	h.m.baan@uva.nl	Netherlands
BAKER	Jonathan	UNESCO ODG	j.baker@UNESCO.org	France
BAKI	Paul	University of Nairobi	pbaki@uonbi.ac.ke	Kenya
BALDWIN	Emily	Astronomy Now	emily@astronomynow.com	Uk
BALIBAR	Francoise	Université Paris-Diderot	f.balibar@wanadoo.fr	France
BANDA	Wladimir Eduardo	University of Quito	observaquito@gmail.com	Ecuador
BANDARIN	Francesco	Dir World Heritage Center	f.bandarin@UNESCO.org	France
BARBET	Jean	L'Haÿ-les-Roses	barbetje2@wanadoo.fr	France
BARBOSA	Marcio	UNESCO	M.Barbosa@UNESCO.org	Brazil
BARBUY	Beatriz	Sao Paolo University	barbuy@astro.iag.usp.br	Brazil
BARDON	Agnes	UNESCO BPI	a.bardon@UNESCO.org	France
BARDOU	Marie-line	Clair d'etoiles & Brin d'jardin	clairetoiles-brindjardin@wanadoo.fr	France
BARROSA	Mariana	IYA2009 Secretariat	mbarrosa@eso.org	Germany
BARROY	Pierre	Universite de Picardie	pierre.barroy@physics.org	France
BARRY	William	NASA	Elvyre.Auday-1@nasa.gov	Usa
BARTHEL	Peter	Kapteyn Institute, Groningen	pdb@astro.rug.nl	Netherlands
BASDEVANT	Jean-louis	Ecole Polytechnique	jean-louis.basdevant@polytechnique.edu	France
BATSAIKHAN	Bayartungalag	National University of Mongolia	b_tungalag_b@yahoo.com	Mongolia
BAUDOUIN	Cyrille	Observatoire de la Cote d'Azur	cyrille.baudouin@unice.fr	France
BAUDRY	Patrick	UNESCO Goodwill Ambassador	b.irsheid1@UNESCO.org	France
BAUDVIN	Danielle	l'Astronomie (SAF)	uraniedb@gmail.com	France
BAUDVIN	Danielle	L'Astronomie (SAF)	uraniedb at gmail.com	France
BEKA	Eric	Ambassador of Belgium for Space Policy	isabelle.mereau@belspo.be	Belgium

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BELAMINE	Lassaad	UNESCO delegation of Tunisia	dl.tunisie@UNESCO.org	Tunisia	CASOLI	Fabienne	CNES, Centre National d'Etudes Spatiales	fabienne.casoli@cnes.fr	France
BELHAJ	Zakaria	Morocco Amateur Astronomers Network	z.belhaj@gmail.com	Morocco	CASSE	Michel	Institut d'Astrophysique de Paris	casse@iap.fr	France
BELL BURNELL	Jocelyn	Physics Department Oxford	jocelyn@astro.ox.ac.uk	UK	CASSESE	Andre	Observatoire de Rocbaron	observatoire-rocbaron@aliceadsl.fr	France
BELMONTE	Juan Antonio	Astronomy Institute of Canarias	jba@iac.es	Spain	CAULIER	Didier	Club Astronomique de Lille	didier_caulier@libertysurf.fr	France
BEN ISMAIL	Mohamed Hedi	Science City	b.ismail@cst.rnu.tn	Tunisia	CAUSSE	Bernard	Ambares	causse-lavai@wanadoo.fr	France
BEN MAOUIA	Naoufel	UNAWA coordinator	naoufel.benmaouia@cst.rnu.tn	Tunisia	CAVAROZ	René	Liaison Enseignants Astronomes	cavaroz.rene@orange.fr	France
BENACCHIO	Leopoldo	Padova Observatory	benacchio@inaf.it	Italy	CELEBRE	Cynthia	Philippine Atmosph. Geophysical & Astronomical SA	cynthia_celebre@yahoo.com	Philippines
BENEDETTI	Arnaud	Dir. Com CNRS	arnaud.benedetti@cnsr-dir.fr	France	CELLINO	Alberto	Observatorio de Torino	cellino@to.astro.it	Italy
BENEST	Daniel	Observatoire Cote d'Azur	benest@oca.eu	France	CELNIEKIER	Ludwik	Observatoire de Paris	ludwik.celnikier@obspm.fr	France
BENVENUTI	Piero	ASI, Italien Space Agency	piero.benvenuti@unipd.it	Italy	CESARSKY	Catherine	President of IAU	catherine.cesarsky@cea.fr	France
BERENGUEL	Victor	Savines le Lac	com.com.savinois@wanadoo.fr	France	CESARSKY	Diego	MPI fur Extraterrestrische Physik	diego.cesarsky@mpe.mpg.de	Germany
BERENQUER	Yolanda	UNESCO	Y.Berenguer@UNESCO.org	France	CHAMBAUD	Marie-pierre	Associations IRIS et VEGA	coolapy@hotmail.com	France
BERGERON	Jacqueline	Institut d'Astrophysique	bergeron@iap.fr	France	CHAMBENOIT	Katarzyna	Réalisatrice films scientifiques	katarzyna.chambenoit@neuf.fr	France
BERNABEU	Guillermo	Spanish Parliament	Bernabeu@ua.es	Spain	CHAMINADE	Laurent	Imperial College Press	laurent@icpress.co.uk	UK
BERNAL	Patricio	UNESCO ADG/IOC	p.bernal@UNESCO.org	France	CHANIN	Marie- Lise	Laboratoire d'Aéronomie de Paris	marie-Lise.chanin@aerov.jussieu.fr	France
BERNARD	Gabriel	Association Planete Sciences	gabriel.bernard@planete-sciences.org	France	CHARIOT	Eric	Societe Astronomique de Bourgogne	eric.chariot@wanadoo.fr	France
BERTOLA	Francesco	Universita di Padova	bertola@pd.astro.it	Italy	CHARLEBOIS	Lise	Federation des astronomes amateurs du Quebec	remi2@astromirabilis.com	Canada
BHATTARAI	Suresh	Nepal Astronomical Society	chikursharma@gmail.com	Nepal	CHARLOT	Patrick	Observatoire de Bordeaux	Patrick.Charlot@obs.u-bordeaux1.fr	France
BHAUMIK	Mani	Cosmotoons, Inc	manibhaumik@cosmotoons.com	USA	CHATY	Stéphane	Institut d'Astrophysique	charlot@iap.fr	France
BIELECKI	Sandrine	Thales Alenia Space	sandrine.bielecki@thalesaleniaspace.com	France	CHATZICHRISTOU	Sylvain	Université Paris Diderot	chaty@cea.fr	France
BIGOT	Bernard	Haut Commissaire CEA	bernard.bigot@cea.fr	France	CHEN	Eleni	Observatory of Athens	echatz@astro.noa.gr	Greece
BILTEANU	Liviu	CEA	liviu.bilteanu@cea.fr	France	CHEN	Deliang	INSU-CNRS	philippe.chauvin@cnsr-dir.fr	France
BIRLAN	Mirel	Observatoire de Paris	Mirel.Birlan@imcce.fr	France	CHEN	Lin- Wen	National Taiwan Normal University	chenlw@ntnu.edu.tw	Taiwan
BIVER	Nicolas	Observatoire de Paris, LESIA	nicolas.biver@obspm.fr	France	CHENET	Joel	ICSU	deliang.chen@icsu.org	France
BJARKASON	Elvar Karl	University of Iceland	ekb4@hi.is	Iceland	CHEUNG	Sze-leung	Thales Alenia Space	joel.chenet@thalesaleniaspace.com	France
BLANC	Michel	Theatre Extensible	contact@theatre-extensible.com	France	CHIANG	Hui- Ju	Ho Koon Astronomical Center	csli@hokoon.edu.hk	Hong Kong
BLONDEEL	Catherine	Thales Alenia Space	catherine.blondeel2@thalesaleniaspace.com	France	CHIANG-JOO	Pilar	National Taiwan University	b97901184@ntu.edu.tw	Taiwan
BLONDIN	Sophie- Andree	Radio-Canada	sophie-andree.blondin@radio-canada.ca	Canada	CHOCHOL	Drahomir	UNESCO Science Sector	p.chiang-joo@UNESCO.org	France
BLUMBERG	Baruch	NASA Lunar Science Institute	baruch.blumberg@fcc.edu	USA	CHOI	Heung Sik	Astronomical Institute SAS	chochol@ta3.sk	Slovakia
BOBIS	Laurence	Observatoire de Paris	laurence.bobis@obspm.fr	France	CHOMAZ	Philippe	IAC2009.org. Committee	sikheung2000@yahoo.co.kr	Korea
BOER	Michel	Observatoire de Haute Provence	Michel.Boer@oamp.fr	France	CHRISTIE	Grant	Directeur du CEA/IRFU	philippe.chomaz@cea.fr	France
BOGNAR-SIMON	Kristina	UNESCO delegation of Hungary	dl.hongrie2@UNESCO.org	Hungary	CHRISTOPHE	Bernard	Stardome Observatory	Grant@christie.org.nz	New-zealand
BOKSENBERG	Alec	Institute of Astronomy, Cambridge	boksy@ast.cam.ac.uk	UK	CIROU	Alain	Société Astronomique SAF	bchristo@club-internet.fr	France
BONNET	Roger-maurice	COSPAR Space Research Committee	roger-maurice.bonnet@issi.unibe.ch	France	CLAIR	Marie Anne	Ciel et Espace	a.cirou@cieletespace.fr	France
BONNET- BIDAUD	Jean- Marc	Service d'Astrophysique CEA	bonnetbidaud@cea.fr	France	CLEMENT	Jérôme	CNES	marie-anne.clair@cnes.fr	France
BONNEVILLE	Richard	CNES	richard.bonneville@cnes.fr	France	COLDEFY	Hélène	Président d'ARTE	j-clement@artefrance.fr	France
BORDERIE	Olivier	Atmosphere en images	atmosphere.en.images@free.fr	France	COLLIN	Suzy	ARTE	h-coldefy@artefrance.fr	France
BOS	Patrick	Kapteyn Institute, Groningen University	pbos@astro.rug.nl	Netherlands	COMBES	Francoise	Observatoire de Paris LUTH	suzy.collin@obspm.fr	France
BOTTARO	Denis	DCNS Naval Systems	denis.bottaro@gmail.com	France	COMBETTE	Agnes	Paris Observatory	francoise.combes@obspm.fr	France
BOTTI	Thierry	Observatoire de Marseille	thierry.botti@oamp.fr	France	CONSOLMAGNO	Guy	Societe d'Astronomie de Nantes	combette.agnes@wanadoo.fr	France
BOUCHET	Francois	IAP, Institut d'Astrophysique de Paris	bouchet@iap.fr	France	COOPER	Keith	Vatican Observatory	brother_guy@mac.com	Vatican
BOUCHET	Ghislaine	Association les Z Artistes	gbouchet@persona.ca	Canada	CORBETT	Ian	Astronomy Now	keith@astronomynow.com	USA
BOUDON	Vincent	Institut Carnot de Bourgogne	Vincent.Boudon@u-bourgogne.fr	France	CORDERO-DI-MON-TEZEMOLO	Alessandra	ESO European Southern Observatory	icorbett@eso.org	Germany
BOUGERET	Jean-Louis	Observatoire de Paris-Meudon	Jean-Louis.Bougeret@obspm.fr	France	COULOMBE	Pierre	Thales Alenia Space	alessandra.cordero-di-montezemolo@thalesaleniaspace.com	France
BOURDON	Brigitte	Observatoire de Paris	brigitte.bourdon@obspm.fr	France	COURTILLOT	Vincent	President, National Research Council Canada	info@nrc-cnrc.gc.ca	Canada
BOURGUIGNON	Anne	Dunod Editions	abourguignon@dunod.com	France	COURTIN	Regis	IPGP, Institut de Physique du Globe	courtill@ipgp.jussieu.fr	France
BOYARCHUK	Aleksandr	Institute of Astronomy	aboyar@inasan.rssi.ru	Russia	COUSTENIS	Athena	Observatoire de Paris - LESIA	regis.courtin@obspm.fr	France
BOZIC	Nikola	Pres. National Node of Serbia	bozicn@das.org.rs	Serbia	COUTELLIER	Vincent	LESIA, Paris Observatory	athena.coustenis@obspm.fr	France
BRACHET	Gerard	Pres Air and Space Academy	sicitur@wanadoo.fr	France	COX	Pierre	Association Parsec Astrorama	vic@astrorama.net	France
BRACK	Andre	Molecular Biophysics Center	brack@cnsr-orleans.fr	France	CRAWFORD	John	IRAM Institut Radioastronomie	cox@iram.fr	France
BRADBURY	Kim	Cook and associates	kimbradbury@cookandassociates.co.uk	UK	CRUZ	Maria	Jones Day	jfcrawford@jonesday.com	France
BRAGASON	Saevar Helgi	Icelandic national node	saevar@stjornuskodun.is	Iceland	CULLIN	Jean- Charles	Science Magazine, Europe Office	mcruz@science-int.co.uk	UK
BRAHIC	André	Université Paris-Diderot, and CEA	brahic@discovery.saclay.cea.fr	France	CULLINS	Melanie	Canada-France-Hawaii Telescope	jcc@cft.hawaii.edu	USA
BRECHIGNAC	Catherine	Director of CNRS	Secr-Pres@cnsr-dir.fr	France	D' AUBERT	Francois	National Research Council	Melanie.Cullins@nrc-cnrc.gc.ca	Canada
BREDNER	Eberhard	Amateur Astronomer IOTA/ES	Eberhard@Bredner.eu	Germany	D' ESCATHA	Yannick	Pres Cite des Sciences	francois.daubert@cite-sciences.fr	France
BREKKE	Paal	Norwegian Space Centre	paal.brekke@spacecentre.no	Norway	DAIGNE	Frederic	President of CNES	Yannick.dEscatha@cnes.fr	France
BRIAND	Carine	Observatoire de Paris, LESIA	carine.briand@obspm.fr	France	DAMAS	Chantale	Institut d'Astrophysique de Paris	daigne@iap.fr	France
BRIOT	Danielle	Observatoire de Paris	danielle.briot@obspm.fr	France	DAOU	Doris	City University of New York (CUNY)	CDamas@gc.cuny.edu	USA
BROCHET - MOUGINOT	Celine	Observatoire de Grenoble	celine.brochet@obs.ujf-grenoble.fr	France	DAVIES	Roger	Nasa Lunar Institute	doris.daou-1@nasa.gov	USA
BROOKS	Anathea	UNESCO Science Sector	a.brooks@UNESCO.org	France	DE CAMBRA	Siia	Oxford University	rld@astro.ox.ac.uk	UK
BROUILLET	Nathalie	Observatoire de Bordeaux	brouillet@obs.u-bordeaux1.fr	France	DE JESUS	Jacques	Professor of Mathematics	ambaixada@wanadoo.fr	Andorra
BRZEZINSKI	Aleksander	Polish Academy of Sciences	alek@cbk.waw.pl	Poland	DE JONGE	Stijn	MJC Pont du Sonnat	jak.dejesus@free.fr	France
BUAT	Véronique	Observatoire de Marseille	veronique.buat@obspm.fr	France	DE LA COTARDIERE	Philippe	Astronomy Association	stijn.de.jonge@skynet.be	Belgium
BUCHER	Bruno	C'est pas sorcier	bruno.bucher@cestpassorcier.com	France	DE LA GUARDIA	Monica	Writer and journalist	pccotardiere@larousse.fr	France
BURGARELLA	Denis	Observatoire de Marseille	denis.burgarella@oamp.fr	France	DE ZEEUW	Tim	La Habana	monica@reduniv.edu.cu	Cuba
BURY	Patrick	Gens de la Lune	patrick.bury@laposte.net	France	DEMORY	Brice- Olivier	ESO Director General	tdezeeuw@eso.org	Germany
BUTOR	Patrick	Cité des Sciences	patrick.butor@cite-sciences.fr	France	DENIS	Gil	University of Geneva	Brice-Olivier.Demory@unige.ch	Switzerland
CALCIONI	Maria Carla	Université de Trieste	mariaclaracalcioni@gmail.com	Italy	DENISSUK	Igor	Planete Sciences	gil.denis@planete-sciences.org	France
CAMPBELL	Katharine	Australian embassy to Brussels	sally.mansfield3@dfat.gov.au	Australia	DENNEFELD	Michel	UNESCO delegation of Ukraine	dl.ukraine@UNESCO.org	Ukraine
CANDAU	Anne	UNESCO Science Sector	a.candau@UNESCO.org	France	DENTIN	Serge	IAP	dennefel@iap.fr	France
CANNAT	Guillaume	amds, Nathan	gc@amds-edition.com	France	DERCOURT	Jean	Association Polly Maggoo	serge.dentin@pollymaggoo.org	France
CAPARROS	Rocio	International Astronautical Federation	rocio.caparros@iafaastro.org	France	DEUSTUA	Susana	Académie des Sciences	jean.dercourt@academie-sciences.fr	France
CARBUNE	Victor	Urania Association	victor.carbune@gmail.com	Romania	DEVINS	Philippe	Space Telescope Institute	deustua@stsci.edu	USA
CARIAS	Marcos	university of Honduras	mcarias2@cablecolor.hn	Honduras	DEVLIN	Paul	HP- France	philippe.devins@hp.com	France
CARLSON	David	International Polar Year	ipy.ras@gmail.com	USA	DIARRA	Cheikh	BLAST	paul@pauljdevlin.com	USA
CARR	Kim	Minister for Innovation, Industry, Science and Research	senator.carr@aph.gov.au	Australia			UNESCO Goodwill Ambassador	b.irsheid3@UNESCO.org	France
CARRIERE	Jean-claude	Writer	carriere222@gmail.com	France					

List of Participants

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The Region Around MWC 147
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DIARTE	Maitte	Entrevennes	maite.diarTE@gmail.com	France	GANTCHEV	Gantcho	University of Provence	Gantcho.Gantchev@etu.univ-provence.fr	France
DIEGO	Francisco	University College London	fd@star.ucl.ac.uk	Spain	GARCIA	Beatriz	UTN-Facultad Regional Mendoza-CONICET	beatrizgarciautn@gmail.com	Argentina
DIGHAYE	Jean- Luc	EurAstro	jdighaye@t-online.de	Belgium	GARCIA MUNGUJA	Otilio	Universidad Autonoma Chapingo de Mexico	einsteintoti@hotmail.com	Mexico
DIVINAGRACIA	Pauline	University of Philippines	pau2x_13@yahoo.com	Philippines	GARDNER	Jonathan	NASA	Jonathan.P.Gardner@nasa.gov	Usa
DLUZHNEVSKAYA	Olga	Russian Academy of Sciences	olgad@inasan.ru	Russia	GAURIAT	Michel	Exoplanet Hunters	info@betaprod.fr	France
DOCOBO	Jose	Univ Santiago de Compostella	oadoco@usc.es	Spain	GENZEL	Reinhard	Max Planck Institute	genzel@mpe.mpg.de	Germany
DOGSE	Peter	UNESCO Science Sector	p.dogse@UNESCO.org	France	GHASSEMLOU	Farid	Islamic Encyclopedia Foundation	GhassemLou@gmail.com	Iran
DOLE	Herve	Institut d'Astrophysique Spatiale	herve_dole@yahoo.com	France	GHAZALI	Mansour	UNESCO Saudi Arabia Dlg	dl.arabie-saoudite2@UNESCO.org	Saudi Arabia
DOMENECH	Annia	Caos y ciencia	annia@caosyciencia.com	Spain	GHEORGHE	Andrei Dorian	Romanian Society for Meteors and Astronomy	adgsarm@gmail.com	Romania
DOMINGUEZ BRITO	Elsa	UNESCO Dominican Republic Dlg	dl.rep-dominicaine2@UNESCO.org	Dominican Republic	GILLS	Martins	Institute of Astronomy	iya2009.lv@gmail.com	Latvia
DONAS	Jose	Observatoire de Marseille	jose.donas@oamp.fr	France	GLASER	Gisbert	ICSU	gisbert.glaser@icsu.org	France
DORAN	Rosa	Interactive Nucleus of Astronomy	rosa.doran@gmail.com	Portugal	GODIER	Stephanie	Recherche et Avenir	stephanie.godier@rechercheetavenir.eu	France
DORESSOUDIRAM	Alain	Observatoire de Paris, LESIA	alain.doressoundiram@obspm.fr	France	GOLDING	Thomas	University of Oslo	thomaspg@student.uio.no	Norway
DORME	Bjorn	University of Belgium	bjorn.dorme@msn.com	Belgium	GOMBOC	Andreja	University of Ljubljana	astro2009@fmf.uni-lj.si	Slovenia
DRUSOVAA	Alexandra	UNESCO Czech delegation	dl.czech3@UNESCO.org	Czech Republic	GOMEZ ROLDAN	Angel	Revista Astronomia	agomez@equiposirius.com	Spain
DUARTE	Max	Universidad Nacional de Asuncion	maximuspy@gmail.com	Paraguay	GONZALEZ	Norberto	University of Puerto Rico at Arecibo	tiohilsa0512@yahoo.com	Usa
DUBATH	Pierre	Geneva Observatory	pierre.dubath@unige.ch	Switzerland	GOONEWARDENA	Dilum	UNESCO Sri Lanka Dlg	dl.sri-lanka3@UNESCO.org	Sri Lanka
DUCLOY	Martial	University Paris Nord	martial.ducloy@univ-paris13.fr	France	GOUDIS	Christos	National Observatory of Athens	cgoudis@astro.noa.gr	Greece
DUMAINE	Sylvie	Thales Group	sylvie.dumaine@thalesgroup.com	France	GOUDY	Philippe	CNES	philippe.goudy@cnes.fr	France
DURAN	Edison	Astronomy Institute	eduran@cida.ve	Venezuela	GOURDIN-BERTIN	Simon	ENS	gourdin@clipper.ens.fr	France
EDER	Wolfgang	University of Munich	w.eder-geo@hotmail.de	Germany	GOURDON	Annette	Exoplanet Hunters	a.gourdon2@free.fr	France
EDWARTOSKI	Stephanie	Federation of Galaxy Explorers	stephe@foge.org	Usa	GOVENDER	Kevin	SAAO Observatory	kg@sao.ac.za	South Africa
EFLOV	Elmer	St-Petersbourg State University	karnathorjian@gmail.com	Russia	GRAHAM	Steve	NASA	Steve.Graham@nasa.gov	Usa
EFTIMIADIS	Nicholas	Federation of Galaxy Explorers	neftimiades@foge.org	Usa	GRAUSS	Bernard	Association Eratosthene	bernard.grauss@aliceadsl.fr	France
EGRET	Daniel	President of Observatoire de Paris	daniel.egret@obspm.fr	France	GREISS	Sandra	University of Paris	sandragreiss@hotmail.com	France
EILERS	Dirk	Get-Going, Varel	Dirk.Eilers@get-going.de	Germany	GRIGORE	Valentin	Romanian Society for Meteors and		
EKANGO NGOULA	Abel	GLOCECOHADIM	communityfarms2@yahoo.co.uk	Cameroon	ASTRONOMY	Frederic	Romania	frederic.guerin@free.fr	France
EKERS	Ron	Australia Telescope National Facility	Ron.Ekers@csciro.au	Australia	GUERIN	Nidhal	Freelance science journaliste	nguessoum@aus.edu	Emirates
EKSTROM	Sylvia	Geneva Observatory	Sylvia.Ekstrom@unige.ch	Switzerland	GUESSOUM	Bruno	American University of Sharjah, United Arab Emirates	bruno.guiderdoni@obs.univ-lyon1.fr	France
EL-TAYEB	Mustafa	UNESCO Science Sector	m.el-tayeb@UNESCO.org	France	GUIDERDONI	Edgar	Observatoire de Lyon	guzman@ula.ve	Venezuela
ELLIOTT	David	Royal Astronomical Society	de@ras.org.uk	Uk	GUZMAN	Ans	Science Faculty	anshakkenberg@gmail.com	Netherlands
ELLWOOD	John	ESA	john.ellwood@esa.int	France	HAKKENBERG	Shadi	Nijmegen University	shadihamediyahoo.com	Iran
ENGVOLD	Oddbjorn	Inst of Theoretical Astrophysics	oddbjorn.engvold@astro.uio.no	Norway	HAMEDI AZAD	Jean-marie	TWAN	jean-marie.hameury@cnsr-dir.fr	France
ERDELEN	Walter	UNESCO	w.erdelen@UNESCO.org	France	HAMEURY	Hamid	Directeur Scientifique INSU CNRS	hamidanihamid@yahoo.fr	Algeria
EVANS	Gary	Science Photo Library	gary.evans@sciencephoto.com	Uk	HAMIDANI	Francois	University of Constantine	francois.hammer@obspm.fr	France
EZE	Ikechukwu	University of Nigeria	okekepius@gmail.com	Nigeria	HAMMER	Yasuharu	Observatoire de Paris - GEPI	yas-hanaoka@orbys.co.jp	Japan
FABIAN	Andy	Cambridge Institute	acf@ast.cam.ac.uk	Uk	HANAOKA	Mutsuko	Orbys Inc.	mut-hanaoka@orbys.co.jp	Japan
FALCON	Nelson	University of Carabobo	nelsonfalconv@gmail.com	Venezuela	HANAOKA	Kenji	Orbys Inc.	ken-hanaoka@orbys.co.jp	Japan
FAVATA	Fabio	ESA European Space Agency	Fabio.Favata@esa.int	Netherlands	HANAOKA	Thierry	Orbys Inc.	ttf@telenet.be	Belgium
FAVIER	Jean- Jacques	CNES	jean-jacques.favier@cnes.fr	France	HANON-DEGROOTE	Anne	Astronomy Association	harivel.picardiecsti@nordnet.fr	France
FAXAS	Laura	UNESCO Dominican Republic Dlg	dl.rep-dominicaine@UNESCO.org	Dominican Republic	HARIVEL	Jody	CSTI Picardie	jharkrider@saisd.net	Usa
FELDER	Aline	University of Geneva	felder.faessler@bluewin.ch	Switzerland	HARKRIDER	Hashima	Professor of Physics	hhasan@nasa.gov	Usa
FELENBOK	Paul	Observatoire de Paris, LESIA	paul.felenbok@obspm.fr	France	HASAN	Siraj	NASA	hasan@iiaap.res.in	India
FELLOUS	Jean Louis	COSPAR	jean-louis.fellous@cosparhq.cnes.fr	France	HASAN	Miftachul	Indian Institute of Astrophysics	mifta_upik@yahoo.com	Indonesia
FERBOS	Pierre	Atmosphere en Images	atmosphere.en.images2@free.fr	France	HASANA	Julia	SGAC IYA 2009 competition winner	j.hasler@UNESCO.org	France
FERLET	Roger	Institut d'Astrophysique de Paris	ferlet@iap.fr	France	HASLER	Scott	UNESCO Science Sector	scotthatton@gmail.com	France
FERNANDES	Joao	Museu da Ciencia	jmfernan@mat.uc.pt	Portugal	HATTON	Hans	International Astronautical Federation	hans.haubold@univieenna.org	Austria
FERNANDO	Lional	UNESCO Sri Lanka Dlg	dl.sri-lanka@UNESCO.org	Sri Lanka	HAUBOLD	Andre	UNESCO OOSA	aheck@newb6.u-strasbg.fr	France
FERNINI	Ilias	United Arab Emirates University	ifernini@uaeu.ac.ae	Emirates	HECK	Mary Kay	Strasbourg Observatory	marykay@astro.as.utexas.edu	Usa
FEUERBACHER	Berndt	International Astronautical Federation	Berndt.Feuerbacher@dlr.de	Germany	HEMENWAY	Leo	University of Texas	leo.hennessy@esa.int	France
FIAMMINGO	Raphael	Fiami (The lives of Galileu)	info@fiami.ch	Switzerland	HENNESSY	Mario	ESA, Paris	m.hernandez@UNESCO.org	France
FIAMMINGO ALCALDE	Ana Maria	The Lives of Galileu	fiammingo16@bluewin.ch	Switzerland	HERNANDEZ	Hector-pastor	UNESCO Science Sector	del.cuba@UNESCO.org	Cuba
FICHTNER	Stephan	Reshift-live.com	s.fichtner@usm.de	Germany	HERNANDEZ		UNESCO delegation of Cuba		
FIERRO	Julietta	University of Mexico	fierroju@servidor.unam.mx	Mexico	GONZALEZ-PARDO				
FILLION	Sebastien	Taffy Entertainment	sebastien.fillion@taffyentertainment.com	France	HESS	Patrice	Association Rovenaine	rove.astronomie@orange.fr	France
FLORES CHALCON	Soraya	Universidad San Antonio Abad del Cusco	soryta18@hotmail.com	Peru	HESSER	Jim	National Research Council, SPoC	Jim.Hesser@nrc-cnrc.gc.ca	Canada
FLOURET	Bertrand	Observatoire de Paris	bertrand.flouret@obs-nancay.fr	France	HESSER	Betty	RASC, Victoria Centre	bhesser@shaw.ca	Canada
FONTAINE	Sebastien	Palais de la Decouverte	afelia@hotmail.fr	France	HICKSON	Paul	Canadian Astronomical Society, President	casca-president@astro.queensu.ca	Canada
FONTEZ	Mathilde	Sciences et Vie	mathildefontez@yahoo.fr	France	HIDAYAT	Taufiq	Bosscha Observatory	taufiq@as.itb.ac.id	Indonesia
FOSSAT	Eric	Universite de Nice	Eric.Fossat@unice.fr	France	HILL	Robert	Armagh Planetarium	rabhill@hotmail.com	Ireland
FOSSE	David	Ciel et Espace	d.fosse@cieletespace.fr	France	HILL	Julie	Northern Ireland Space Office	rob@armaghplanet.com	Ireland
FOUCHET	Thierry	Europlanet	Thierry.Fouchet@obspm.fr	France	HOI FUNG YU	David	University of Hong Kong	sptfung@hkusua.hku.hk	Hong Kong
FOUQUET	Nicole	Observatoire de Paris	courtin.regis@aliceadsl.fr	France	HOLBROOK	Jarita	IYA2009 USA Cultural Astronomy Group	holbrook@u.arizona.edu	Usa
FOUQUET	Pascal	Club Astro de la Region Lilloise	fouquet_pascal@yahoo.fr	France	HOLMES	Rebecca	University of North Carolina Chapel Hill	rholmes@email.unc.edu	Usa
FRANKEL	Charles	Writer and journalist	Csfrankel@aol.com	France	HONG	Seung Soo	Yonsei University	wooyahsszz@naver.com	Korea
FRANKOVIC	Maja	UNESCO delegation of Croatia	dl.croatie2@UNESCO.org	Croatia	HORELLOU	Cathy	Onsala Space Observatory	Cathy.Horellou@chalmers.se	Sweden
FRECON	Luc	Thales Alenia Space	luc.frecon@thalesaleniaspace.com	France	HU	Seline Chia- Ling	National Taiwan University	selinehu@phys.ntu.edu.tw	Taiwan
FRENOT	Yves	IPEV Inst. Paul Emile Victor	yves.frenot@ipev.fr	France	HUANG	Kang	UNESCO BB	k.huang@UNESCO.org	France
FRIEDLANDER	Michel	Fleurs de Sciences	m.fried@wanadoo.fr	France	HUAU	Isabelle	Cafe des Sciences Avignon	isahauau@gmail.com	France
FRIEDLANDER	Brigitte	Fleurs de Sciences	b.fri@wanadoo.fr	France	HUBER	Martin	European Physical Society	mceh@bluewin.ch	Switzerland
FROELICH	Annette	DLR	Annette.Froehlich@dlr.de	Germany	HUCHRA	John	Harvard Center for Astrophysics	huchra@cfa.harvard.edu	Usa
FUNES	Jose	Vatican Observatory	jfunes@specola.va	Vatican	HUGHES	Stella	UNESCO BPI	s.hughes@UNESCO.org	France
GABOR	Pavel	Astrophysics Faculty	p.gabor@jesuit.cz	Vatican	HUMBERSON	Winnie	NASA	winnie.h.humberston@nasa.gov	Usa
GAINCHE	Josette	Science Sector	j.gainche@UNESCO.org	Vatican	IBADINOV	Khursand	SPoC from Tajikistan	ibadinov@mail.ru	Tajikistan
GAINES	Sarah	UNESCO Science Sector	s.gaines@UNESCO.org	France	ICDEM	Burcin	Middle East Technical University	e142342@metu.edu.tr	Turkey
GALIC	Mirko	UNESCO delegation of Croatia	dl.croatie@UNESCO.org	Croatia	INCERTI	Manuela	Astronomy and Cultural Heritage	manuela.incerti@unife.it	Italy
GANGUI	Alejandro	Institute of Astronomy IAFE	gangui@iafe.uba.ar	Argentina	INGEMYR	Mikael	Rymdgymnasiet Kiruna	ingemyr@gmail.com	Sweden

List of Participants

List of Participants

The Region Around MWC 147
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INGRAO	Anita	400 Years of the Telescope	anita@interstellarstudios.com	Usa	LERR	Agnès	CNES, Centre National d'Etudes Spatiales	agnes.lerr@cnes.fr	France
IRSHIED	Basma	UNESCO ODG	b.irshied@UNESCO.org	France	LERY	Thibaut	European Science Foundation	tlery@esf.org	France
ISBELL	Douglas	NOAO National Optical Observatory	disbell@noao.edu	Usa	LESTRADE	Jean-francois	Observatoire de Paris	jean-francois.lestrade@obspm.fr	France
ISHWARAN	Natarajan	UNESCO Science Sector	n.ishwaran@UNESCO.org	France	LEUNG	Kam- Cheung	IYA Hong Kong SPoc	kcleung@hkas.org.hk	Hong Kong
ISLAM OPU	Naimul	Anushandhitshu Chokro Science Org	opuastro@yahoo.com	Bangladesh	LEVASSEUR-REGOURD	Anny- Chantal	University Pierre and Marie Curie	aclr@aerov.jussieu.fr	France
ITEN	Ernst	UNESCO delegation of Switzerland	dl.suisse@UNESCO.org	Switzerland	LHOUMEAU	Yves	Planetarium Bressan	yves.lhoumeau@gmail.com	France
IVANTSOV	Anatoliy	Nikolaev Astronomical Observatory	valani@mail.ru	Ukraine	LHUILLIER	Benjamin	Observatoire de Paris, LERMA	benjamin.lhuillier@obspm.fr	France
JACQUEMONT	Guillaume	Pour La Science	guillaume.jacquemont@pourlascience.fr	France	LI	Jong Choi	UNESCO BB	jc.li@UNESCO.org	France
JANYSKA	Petr	UNESCO Czech delegation	dl.czech1@UNESCO.org	Czech Republic	LIBERT	Yannick	Observatoire de Paris, LERMA	yannick.libert@obspm.fr	France
JARDIN	Mireille	UNESCO ODG	m.jardin@UNESCO.org	France	LINDBERG CHRISTENSEN	Lars	ESO European Southern Observatory	lars@eso.org	Germany
JARRE	Jean- Michel	UNESCO Goodwill Ambassador	b.irshied2@UNESCO.org	France	LINDQVIST	Michael	Onsala Space Observatory	Michael.Lindqvist@chalmers.se	Sweden
JARRIER	Michel	University of Paris	mjar@wanadoo.fr	France	LOCTIN	Eliane	Le Curieux du Ciel	rene.loctin@orange.fr	France
JAUNSEN	Andreas	University of Oslo	ajaunsen@astro.uio.no	Norway	LOPEZ	Ericson	Quito Astronomical Observatory	ericsonl02@yahoo.com	Ecuador
JEJCIC	Sonja	Technical Center of Nova Gorica	sonja.jejcic@guest.arnes.si	Slovenia	LOPEZ	Bruno	Observatoire de la Cote d'Azur	bruno.lopez@oca.eu	France
JIWAJI	Noorali	SPoC of Tanzania	ntjiwaji@hotmail.com	Tanzania	LOUZAQ OSUNA	Francisco José	Institut Espagnol d'Andorre	ambaixada2@wanadoo.fr	Andorra
JUBIER	Xavier	EurAstro	xavier@eclipse-city.com	France	LOWES	Leslie	NASA	Leslie.L.Lowes@jpl.nasa.gov	Usa
JUILLET	Jean Jacques	Thales Alenia Space	jean-jacques.juillet@thalesaleniaspace.com	France	LUB	Jan	Leiden Observatory	lub@strw.leidenuniv.nl	Netherlands
JUNGWERT	Bruno	Astronomical Institute, Academy of Sciences	bruno@ig.cas.cz	Czech Republic	LYONNE	Laurence	Le Curieux du Ciel	jc.lyonne@tele2.fr	France
JURRIENS	Theo	Math. and Nat.Sciences, Groningen University	t.a.jurriens@rug.nl	Netherlands	LYPISHKO	Dmytro	Ukrainian Astronomical Association	lupishko@astron.kharkov.ua	Ukraine
JURUA	Edward	Mbarara University of Science	ejurua@gmail.com	Uganda	MACCACARO	Tommaso	President of INAF	presidenza@inaf.it	Italy
KACHAROV	Nicolaj	Astronomy Institute	kacni@abv.bg	Bulgaria	MACHON	Miloslav	Univ of West Bohemia in Pilsen	mmachon@gmail.com	Czech Republic
KALINNIKOVA	Stacey	Auckland University	kalinnikova.stacey@gmail.com	New-zealand	MACON BOGAERT	Brigitte	Bars des sciences	combarscience@yahoo.fr	France
KAMOUN	Paul	Thales Alenia Space	paul.kamoun@thalesaleniaspace.com	France	MADRIGAL MONARREZ	Ismael	UNESCO Mexico delegation	dl.mexique2@UNESCO.org	Mexico
KARAVASILEV	Nikola	Astronomy Institute	karavasilev@gmail.com	Bulgaria	MADSEN	Claus	ESO European Southern Observatory	cmadsen@eso.org	Germany
KARKLINS	Janis	UNESCO Latvia delegation	embassy.france@mfa.gov.lv	Latvia	MAGAIL	Corinne	UNESCO Monaco delegation	c.magail@UNESCO.org	Monaco
KARM	Sidonie	Mairie de Maule	sidonie.karm@orange.fr	France	MAHONEY	Terence	Institute of Astronomy	tjm@iac.es	Spain
KATSANEVAS	Stavros	Directeur Scientifique IN2P3 CNRS	katsan@admin.in2p3.fr	France	MAINZER	Amanda	NASA	amanda.k.mainzer@jpl.nasa.gov	Usa
KENAWY	Shadia	UNESCO Egypt delegation	dl.egypte@UNESCO.org	Egypt	MAKAROW	Marja	European Science Foundation	vschaunger@esf.org	Finland
KEPLER	Johanes	(John McFarland)	johanneskepler@att.net	Usa	MALOZO	Mponda	University of Tanzania	mponda2001@yahoo.com	Tanzania
KESSLER	Martin	ESA European Space Agency	Martin.Kessler@esa.int	Netherlands	MALPEDE	Diana	MEDAS Science Sector	d.malpede@UNESCO.org	France
KHALILI	Niloufar Javid	Amateur Astronomer	niloufar_javid@yahoo.com	Iran	MANARANCHE	Myriam	MEDAS	myriam.manaranche@medas.fr	Fr
KHAN	A. R.	Bangladesh Astronomical Society	arkhan1632@yahoo.com	Bangladesh	MANKOTO	Mambaele	Science Sector	m.mankoto@UNESCO.org	France
KHOCHFAR	Sadegh	University of Oxford	sadeghk@astro.ox.ac.uk	Uk	MANSFIELD	Sally	UNESCO delegation of Australia	sally.mansfield@dfat.gov.au	Australia
KIM	Chon- Hong	UNESCO delegation of Korea	dl.coree-rep@UNESCO.org	Korea	MARCO	Olivier	IYA2009 French officer	olivier.marco@obspm.fr	France
KLINGL	Oskar	Exec. Assistant to DDG	o.klingl@UNESCO.org	France	MARIN	Cipriano	Starlight Initiative	c.marin@UNESCOcan.org	Spain
KO	Hyun Ji	Kyungpook National University	a30601785@naver.com	Korea	MAROV	Mikhail	Russian Academy of Sciences	olgad2@inasan.ru	Russia
KOCH	Tamara	American Astronomical Society	kmavel@mac.com	Usa	MART	Zaya	National University of Mongolia	onlyzaya@yahoo.com	Mongolia
KOEHLER	Dan	400 Years of the Telescope	dan@interstellarstudios.com	Usa	MARTIN	Jean Pierre	l'Astronomie (SAF)	jpm.astro@wanadoo.fr	France
KOENIG	Kris	400 Years of the Telescope	kris@interstellarstudios.com	Usa	MARTINEZ	Luis	Instituto de Astrofisica de Canarias	luis.martinez@iac.es	Spain
KOLESNIKOV	Nikolaj	Moscow State University	nick206265@rambler.ru	Russia	MARTINEZ-DELGADO	David	IAC, Astrophysical Institute of Canaries	dldelgado@iac.es	Spain
KONATE	Mouhamed	UNESCO Senegal delegation	dl.senegal@UNESCO.org	Senegal	MARTY	Lionel	Taffy Entertainment	lionel.marty@taffyentertainment.com	France
KONSTANTINOS	Nakis	World Federation of Physics Students	knakis@gmail.com	Greece	MARVEL	Kevin	AAS Society	marvel@aaas.org	Usa
KOS	Peter	University of Pisa	petarkos@yahoo.com	Italy	MASO	L	UNESCO South Africa Dlg	multilateral.relations@afriquesud.net	South Africa
KOSTIC	Uros	University of Ljubljana	uros.kostic@fmf.uni-lj.si	Slovenia	MASON	Keith	Science and Technology	Keith.Mason@stfc.ac.uk	Uk
KOWAL ARCAD	Kimberly	Center for Astrophysics, Harvard	kkowal@cfa.harvard.edu	Usa	MASSÉ	Pascal	Historien d'Art	pascal.masse5@wanadoo.fr	France
KOZAI	Yoshihide	Gunma Astronomical Observatory	kozai@wave.plala.or.jp	Japan	MATHIAS	Katia	Recherche et Avenir	katia.mathias@wanadoo.fr	France
KRAUTTER	Joachim	University of Heidelberg	J.Krautter@sw.uni-heidelberg.de	Germany	MAYOR	Michel	Geneva Observatory	Michel.Mayor@obs.unige.ch	Switzerland
KRISHNA	Gopal	National Center for Radio Astrophysics	krishna@ncra.tifr.res.in	India	MAYOR	Francoise	Genève	francoise.mayor@obs.unige.ch	Switzerland
KUMKOVA	Irina	Sobolev Astronomical Inst	kumkova@iperas.nw.ru	Russia	MAZA	Jose	University of Chile	jmaza@oan.cl	Chile
KWASNIK	Frederic	Club d'astronomie de Douai	astronomie.mjcdouai@wanadoo.fr	France	MAZNYCHENKO	Olexander	UNESCO delegation of Ukraine	dl.ukraine2@UNESCO.org	Ukraine
LACASSE	Remi	Federation des astronomes amateurs du Quebec	remi@astromirabilis.com	Canada	MEDEIROS	Joao	Physics World	Joao.Medeiros@iop.org	Usa
LAGAGE	Pierre Olivier	Chef du Service d'Astrophysique du CEA	pierre-olivier.lagage@cea.fr	France	MEGIE	Monique	Sciences a l'Ecole	monique.megie@obspm.fr	France
LAIRD	Ryan	Leicester University	rjml1@leicester.ac.uk	Uk	MENNETEAU	Patrick	University of Toulon	patrick.menneteau@cegetel.net	France
LAKATOS	Andras	UNESCO delegation of Hungary	dl.hongrie@UNESCO.org	Hungary	MERQUIOL	Elisabeth	Club Astronomique de Lille	elisabeth.merquiol@wanadoo.fr	France
LAMARTINIE	Sujit	President Astronomy Club SAGEM	sujit.lamartinie@libertysurf.fr	France	MESKILL	Michelle	Celestron	mmeskill@celestron.com	Usa
LAMURE	Michel	MEDAS	medas@medas.fr	France	MEYLAN	Georges	EPFL Lausanne	Georges.Meylan@epfl.ch	Switzerland
LANE	Dave	Royal Astronomical Society of Canada, Pres	dlane@ap.stmarys.ca	Canada	MICHEL	Patrick	Observatoire de Cote d'Azur	michel@oca.eu	France
LANE	Michelle	Royal Astronomical Society of Canada	dlane2@ap.stmarys.ca	Canada	MICHEL	Roger	University of Toulon	rofyz@wanadoo.fr	France
LARSSON	Anders	Rymdgymnasiet Kiruna	flanders91_asd@hotmail.com	Sweden	MICHEL COTTE	Michel Cotte	ICOMOS international	cotte.michel@orange.fr	France
LARYEA	Sophia	UNESCO Science Sector	s.laryea@UNESCO.org	France	MICHEL ZAMORA	Francis	UNESCO Science Sector	f.michel-zamora@UNESCO.org	France
LAUTIER	Pascale	Observatoire de Paris	pascale.lautier@obspm.fr	France	MIDAVAINÉ	Thierry	Club Eclipse	thimidav@club.fr	France
LAVAL	Guy	Ecole Polytechnique	laval@cphpt.polytechnique.fr	France	MILEY	George	Leiden Observatory	miley@strw.leidenuniv.nl	Netherlands
LAZOWSKI	Anna	Conteuse	lazowski.anna@gmail.com	France	MILEY-BLOMBERG	Hanneke	Leiden University	hmiley@strw.leidenuniv.nl	Netherlands
LE MOLI	Nella	INAF	lemoli@inaf.it	Italy	MILLON ROUSSEAU	Francois	Exapolis	fmr@exapolis.fr	France
LEBRETON	Yveline	Universite de Rennes 1	Yveline.Lebreton@obspm.fr	France	MILNE	Dens	Physics World	dens.milne@iop.org	Usa
LEBRETON	Jean- Pierre	Europlanet	Jean-Pierre.Lebreton@esa.int	Netherlands	MILOVANOVIC	Slobodan	Faculty of Mechanical Engineering	slobodandjmilovanovic@gmail.com	Serbia
LEBRON SANTOS	Mayra	University of Puerto Rico	mlebron@naic.edu	Puerto Rico	MIMOUNI	Jamal	University of Constantine	jamalmimouni@yahoo.com	Algeria
LECLERCQ	Benedicte	Pour La Science	benedicte.leclercq@pourlascience.fr	France	MINN	Young Key	Kyung Hee University	yminn@khu.ac.kr	Korea
LEE	Yueh- Ning	National Taiwan University	b97401097@ntu.edu.tw	Taiwan	MINTSA	Julie	USTM, Rouen University	mintsajulie82@yahoo.fr	Gabon
LEE	Kai Yan	University of Hong Kong	abken601@hkusua.hku.hk	Hong Kong	MIRABEL	Felix	ESO European Southern Observatory	fmirabel@eso.org	Chile
LEFEVRE	Olivier	Observatoire de Marseille	olivier.lefevre@oamp.fr	France	MIRAHMETOGLU	Halit	SGAC IYA 2009	halit@uzaybilim.com	Turkey
LEFEVRE	Jean-louis	Bordeaux	lefevre_jeanlou@yahoo.fr	France	MIRALLES BELLERA	Joan- Marc	Institut d'Estudis Andorran	ieabarcelona@iea.ad	Andorra
LEGLU	Dominique	Sciences et Avenir	dleglu@sciences-et-avenir.com	France	MISSOTTEN	Robert	UNESCO Science Sector	r.missotten@UNESCO.org	France
LEMAIRE	Jean Louis	Universite de Cergy-Pontoise	jean-louis.lemaire@obspm.fr	France	MOHAMMED ALI	Zeinab Hashem	Kunskapsskolan, Stockholm	ukc1250@edu.kunskapsskolasiet.se	Sweden
LEMEUR	Helene	La Recherche	helene.lemeur@free.fr	France	MOLARO	Paolo	Osservatorio Astronomico di Trieste	molaro@oats.inaf.it	Italy
LENA	Pierre	Observatoire de Paris, LESIA	pierre.lena@obspm.fr	France	MONCADA GOMEZ	Nancy Yasmin	University of Honduras	nancymoncada1991@yahoo.com	Honduras
LEQUEAU	Dominique	Directeur INSU-CNRS	Dominique.Lequeau@cnrs-dir.fr	France	MOREAU	Olivier	Forum Departemental des Sciences	omoreau@cg59.fr	France

List of Participants

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MOREL	Philippe	President de la SAF	Morel.Philippe@wanadoo.fr	France	PREVIT	Jean-pierre	Societe d'Astronomie de Rennes	jean-pierre.previt@wanadoo.fr	France
MORRISON	David	Nasa Lunar Institute	David.Morrison@nasa.gov	Usa	PROUST	Dominique	Observatoire de Meudon	dominique.proust@obsprm.fr	France
MOUETTE	Jean	Institut d'Astrophysique de Paris	mouette@iap.fr	France	PUGET	Jean-loup	Institute of Space Astronomy	Jean-Loup.Puget@ias.u-psud.fr	France
MOULIN	Annie	International Astronautical Federation	annie.moulin@iafastro.org	France	PULLEN	Lee	IYA2009 Secretariat	lpullen@eso.org	Germany
MOUSSA EL-KHADUM	Djaffar	Science Sector	b.moussa-elkhadum@unesco.org	France	PUSPITARINI	Lucky	University of Indonesia	lu_pus22@yahoo.com	Indonesia
MRAD	Youssef	UNESCO ERC	y.mrad@unesco.org	France	PUY	Denis	University of Montpellier	Denis.Puy@graal.univ-montp2.fr	France
MUEHLE	Stefanie	Joint Institute for VLBI in Europe	muehle@jive.nl	Netherlands	QUIRRENBACH	Andreas	Heidelberg University	A.Quirrenbach@lsw.uni-heidelberg.de	Germany
MUELLER	Andreas	Universe Cluster	andreas.mueller@universe-cluster.de	Germany	RAFFRAY	Brigitte	CEA, Saclay	Brigitte.RAFFRAY@cea.fr	France
MULLER WIRTH	Philipp	UNESCO BPI	p.muller-wirth@unesco.org	France	RAGUIDEAU	Joelle	CNRS	joelle.raguideau@cnrs-dir.fr	France
MUMINOVIC	Muhamed	Astronomical Society Orion Sarajevo	muhamed_muminovic@yahoo.co.uk	Bosnia-herzegovina	RAHMAN	Shahidur	Dhakka Institute	evolution_universe@yahoo.com	Bangladesh
MUNOZ GOMEZ	Saturnino	UNESCO D/BPI	s.munoz-gomez@unesco.org	France	RANJAN CHAKRABORTY	Bhanu	ATN Bangla TV Channel	bhanuranjan@yahoo.com	Bangladesh
MURUGAIYAN	Pascale	UNESCO Science Sector	p.murugaiyan@unesco.org	France	RAO	Kishore	World Heritage Center	k.rao@unesco.org	France
MWEWA	Melody	University of Zambia	bubumelo41f89@yahoo.co.uk	Zambia	REES	Martin	Cambridge Institute	mjr@ast.cam.ac.uk	UK
NAEYE	Robert	Sky and Telescope	rnaeye@skyandtelescope.com	Usa	REEVES	Hubert	Astrophysics Department CEA	hreeves@club-internet.fr	France
NALECJ	Maciej	UNESCO Science Sector	m.nalecj@unesco.org	France	REINKE	Niklas	DLR	Niklas.Reinke@dlr.de	Germany
NARANJO	Orlando	Science Faculty	naranjo@ula.ve	Venezuela	REUTER	Vivien	IAU Secretariat	vreuter@iap.fr	France
NARANJO	Michel	ADASTA	mnanranjo@orange.fr	France	REVAH	Isaac	COSPAR	irevah@noos.fr	France
NETTING	Ruth	NASA	ruth.a.netting@nasa.gov	Usa	REYES HERNON	Lilian	Universidad de Puerto Rico	reyes_lilian@yahoo.com	Puerto Rico
NEVENZEEL	Keimpe	Kapteyn Institute, Groningen University	nevenzeel@astro.rug.nl	Netherlands	REYSS	Helene	Société Astronomique SAF	helene_reyss@hotmail.com	France
NOMOTO	Ken'ichi	University of Tokyo	nomoto@astron.s.u-tokyo.ac.jp	Japan	RICKMAN	Hans	Uppsala Astronomical Observatory	hans@astro.uu.se	Sweden
NORDSTROM	Birgitta	University of Copenhagen	birgitta@astro.ku.dk	Denmark	RIEU	Nguyen-quang	Observatoire de Paris	Nguyen-Quang.Rieu@obsprm.fr	France
OBULJEN	Andrej	Faculty of Mathematics	andrej.o@sezampro.yu	Serbia	RIGHI STEELE	Elena	European Commission	elena.righi-steele@ec.europa.eu	Belgium
ODMAN	Carolina	Leiden Observatory	odman@strw.leidenuniv.nl	Netherlands	ROBERT	Francois-xavier	Dunod Editions	fxrobert@dunod.com	France
OGER	Francis	Société Astronomique SAF	astro@logique.jussieu.fr	France	ROBERTS	Scott	Explore Scientific	manager@explorescientific.com	Usa
OKEKE	Pius	University of Nigeria, Nsukka	okekepius@yahoo.com	Nigeria	ROBIN	Christophe	Niger Group	christophe.robin@thalesgroup.com	France
OKOUMA	Patrice	Head, Gabon National Node	okouma@hotmail.com	Gabon	ROBSON	Ian	Royal Observatory of Edinburgh	eir@roe.ac.uk	UK
OLIVEIRA FILHO	Kepler De Souza	University of Porto Alegre	Kepler@if.ufrgs.br	Brasil	ROCCA	Brigitte	Institut d'Astrophysique	rocca@iap.fr	France
OLIVEIRA SARAIVA	Maria De Fatima	University of Porto Alegre	fatima@if.ufrgs.br	Brazil	RODRIGO	Rafael	President of Spanish Research Council	rodrigo@orgc.csic.es	Spain
OLLIVIER	Jean- Pierre	Professeur au Collège de Médecine	jpo752@wanadoo.fr	France	ROJO	Patricio	National Observatory of Chile	pato@oan.cl	Chile
OSSAKEDJOMBO-NGOUA	Gisele	UNESCO delegation of Gabon	dl.gabon@unesco.org	Gabon	ROLON	Juan Carlos	University of Paraguay	jcolon@ing.una.py	Paraguay
OUASSYOUN	Zohra	INSU-CNRS	Zohra.Ouassyoun@cnrs-dir.fr	France	ROS	Rosa Maria	Technical University of Catalonia	ros@mat.upc.edu	Spain
OUESLATI	Abdelkader	Science City	Abdelkader.Oueslati@cst.rnu.tn	Tunisia	ROSE	Tracy	Cook and associates	cladswell@mac.com	UK
OVERFELD	Gunter	UNESCO delegation of Germany	UNESCO@amb-allemanne.fr	Germany	ROSSLER	Mechtild	World Heritage Center	m.rossler@unesco.org	France
PACINI	Franco	Firenze Observatory	pacini@arcetri.astro.it	Italy	ROSSWALL	Thomas	ICSU	thomas.rosswall@icsu.org	France
PADMANABHAN	Ajith	SGAC IYA 2009 competition winner	ajith.physics@gmail.com	India	ROUAN	Daniel	Observatoire de Paris, LESIA	daniel.rouan@obsprm.fr	France
PAGANI	Laurent	Observatoire de Paris	laurent.pagani@obsprm.fr	France	ROUSSEAU	Gerald	Astronomie en Chinois	gerald-rousseau@wanadoo.fr	France
PALOUS	Jan	Academy of Sciences of the Czech Republic	palous@ig.cas.cz	Czech Republic	ROYER	Monique	CNRS, Centre National Recherche Scientifique	monique.royer@cnrs-dir.fr	France
PANAJOVIC-CVETKOVIC	Tatjana	UNESCO Serbia delegation	dl.serbie@unesco.org	Serbia	RUATTI	Christian	Observatoire de Paris IMCCE	ruatti@imcce.fr	France
PANDOLFO	Michele	Arts-au-Vert - Trans Rhein Art	michele.pandolfo@wanadoo.fr	France	RUFFINI	Remo	University La Sapienza	ruffini@icra.it	Italy
PANOV	Kiril	Pres Bulgarian Astronomy Committee	kpanov@astro.bas.bg	Bulgaria	RUGGLES	Clive	University of Leicester	rug@leicester.ac.uk	UK
PANSARD-BESSON	Robert	Arkab Productions	robertpansard-besson@club-internet.fr	France	RUSO	Pedro	IYA2009 Coordinator	prusso@eso.org	Germany
PANTOJA	Carmen	University of Puerto Rico	cpantoja@ltp.upr.clu.edu	Puerto Rico	RUSALEPP	Mare	Stellaarium Visitor Center	mare@aai.ee	Estonia
PARTALOVSKI	Filip	Cyrl and Methodius University	filipmhz@yahoo.com	Macedonia	SABET	Fariba	Editor of Nojum magazine	fpayervand@gmail.com	Iran
PASTORELLI	Jean	UNESCO Monaco delegation	c.magail2@unesco.org	Monaco	SACKETT	Penny	Chief Scientist of Australia	chief.scientist@innovation.gov.au	Australia
PATZAK	Margarete	UNESCO Science Sector	m.patzak@unesco.org	France	SAHAL-BRECHOT	Sylvie	Observatoire de Paris, LERMA	sylvie.sahal-brechot@obsprm.fr	France
PAUL	Stephan	Universe Cluster	stephan.paul@ph.tum.de	Germany	SAINCT	Herve	Thales Alenia Space	herve.sainct@thalesaleniaspace.com	France
PEKEUR	Nicolette	University of Cape Town	nikkipekeur@gmail.com	South Africa	SAITO	Yuriko	University of Tsukuba	yurikosai@gmail.com	Japan
PENA GUERRERO	Maria	Universidad Nacional de Mexico (UNAM)	guerrero@astroscu.unam.mx	Mexico	SALGADO	Jose Francisco	Adler Planetarium	josefrancisco@vectorsandpixels.com	Usa
PENNYPACKER	Carl	President of Global HOU, Berkeley	crpenny@lbl.gov	Usa	SALIBA	George	Columbia University	gsaliba@columbia.edu	Usa
PERERA	Mohan	UNESCO Science Sector	m.perera@unesco.org	France	SALVADOR JUNCO	Ana Isabel	Astrophysics Faculty	niti_ana3@yahoo.es	Spain
PERKINS	Kala	Pacific Palisades Post	quasar9@mac.com	Usa	SAM-VARGAS	Susanna	UNESCO Science Sector	s.sam-vargas@unesco.org	France
PERROTT	Yvette	Auckland University	yper006@ec.auckland.ac.nz	New-zealand	SAMUS	Nicolay	Inst of Astronomy RAS	samus@sai.msu.ru	Russia
PESKIREVIC	Ljubomir	Journal Paris-Belgrade	bata@magic.fr	France	SAN SEGUNDO	Maria	UNESCO Spain delegation	dl.hispania@unesco.org	Spain
PESTEL	Marie Jose	Comite Jeux Mathematiques	mjp@cijm.org	France	SANCHEZ	Francisco	Instituto de Astrofisica de Canarias, Director	director@iac.es	Spain
PESTONI	Silvia	University of Geneva	staruccia89@hotmail.com	Switzerland	SANDARS	Martins	University of Latvia	Martins.Sandars@gmail.com	Latvia
PETIT	Jean Francois	Thales Alenia Space	jean-francois.petit@thalesaleniaspace.com	France	SANJURJO	Pablo Villar	Astrophysics Faculty	pablovillar_@hotmail.com	Spain
PETRUSHEVSKA	Tanja	University of Trieste	cassiopeiait@gmail.com	Macedonia	SARKER	F. R.	Bangladesh Astronomical Society	frsarker@yahoo.com	Bangladesh
PHUYAL	Bebika	Takshashila Academy	science@gmail.com	Nepal	SAROJINY	Saddul Hauzaree	Mauritius Institute of Education	sarojiny.saddul@gmail.com	Mauritius
PICKERSGILL	Annemarie	University of Western Ontario	apickers@uwo.ca	Canada	SARRADO	David	Tomblaine	david.sarrado@neuf.fr	France
PIEDNOEL	Eric	Ciel et Espace	eric.piednoel@cieletespace.fr	France	SARTORETTI	Paola	Observatoire de Paris - GEPI	paola.sartoretti@obsprm.fr	France
PIERCE-PRICE	Douglas	ESO European Southern Observatory	dpiercep@eso.org	Germany	SAUVAGEOT	Nicolas	MEDAS	medas.info@medas.fr	France
PILBRATT	Goeran	ESA European Space Agency	Goeran.Pilbratt@esa.int	Netherlands	SAYYAD	Ahmed	UNESCO ADG/ERC	a.sayyad@unesco.org	France
PINEAU	Deanna	University of Victoria	dpineau@uvic.ca	Canada	SCAFFIDI	Alessandra	INAF	alessandra.scaffidi@inaf.it	Italy
PINEDA DE CARIAS	Maria Cristina	Universidad de Honduras	mcarias@cablecolor.hn	Honduras	SCHAAF	Thomas	UNESCO Science Sector	t.schaaf@unesco.org	France
PINTADO	Olga	INSUGEO-CONICET	opintado@tucbbs.com.ar	Argentina	SCHILLING	Govert	Science journalist/writer	mail@govertschilling.nl	Netherlands
PIOLTI	Stephanie	Centre Culturel Charentonneau	centre.culturel@orange.fr	France	SCHMIDT	Gregory	Nasa Lunar Institute	Gregory.K.Schmidt@nasa.gov	Usa
PIRCHER	Marc	CNES	marc.pircher@cnes.fr	France	SCHNEEGANS	Susan	UNESCO Science Sector	s.schneegans@unesco.org	France
PISKUNOV	Nikolai	Uppsala University	piskunov@astro.uu.se	Sweden	SCHNEIDER	Jean	Observatoire de Paris	jean.schneider@obsprm.fr	France
PITTS	Derrick	Franklin Institute Science Museum	dpitts@fi.edu	Usa	SCHOENHERR	Gabriele	Astrophysikalisches Institut Potsdam	gschoenherr@aip.de	Germany
POMPEA	Stephen	NOAO National Optical Observatory	spompea@noao.edu	Usa	SEGHOUANI	Nassim	Observatoire d'Alger	nseghouani@yahoo.com	Algeria
PONCY	Joel	Thales Alenia Space	joel.poncy@thalesaleniaspace.com	France	SEGUIN	Franck	Ciel et Espace	f.seguin@cieletespace.fr	France
POPOVA	Ekaterina	Administration of the President of Russian Federation	Popova_EV@gov.ru	Russia	SEKIGUCHI	Kaz	National Astronomical Observatory of Japan	kaz.sekiguchi@nao.ac.jp	Japan
POSCH	Thomas	Astronomy Institute	posch@astro.univie.ac.at	Austria	SENIOR	Catherine	IPSL	catherine.senior@ipsl.jussieu.fr	France
POSCH	Thomas	UNESCO delegation of Austria	dl.austria@unesco.org	Austria	SERRES	Michel	Académieicien	miserres@gmail.com	France
POULAT	Jean Pierre	Société Astronomique SAF	jeanpierrepoulat@yahoo.fr	France	SETTI	Giancarlo	Universita di Bologna	giancarlo.setti@unibo.it	Italy
POUSSET	Monique	Societe Astronomique de Bordeaux	moniquepousset@wanadoo.fr	France	SEZNEC	Reynald	Thales Alenia Space	catherine.blondeel@thalesaleniaspace.com	France
PRASAD ARYAL	Bharat	Takshashila Academy	abc@gmail.com	Nepal	SHAH	Rishi	Nepal academy of science	rishi@lotusholdings.com	Nepal

List of Participants

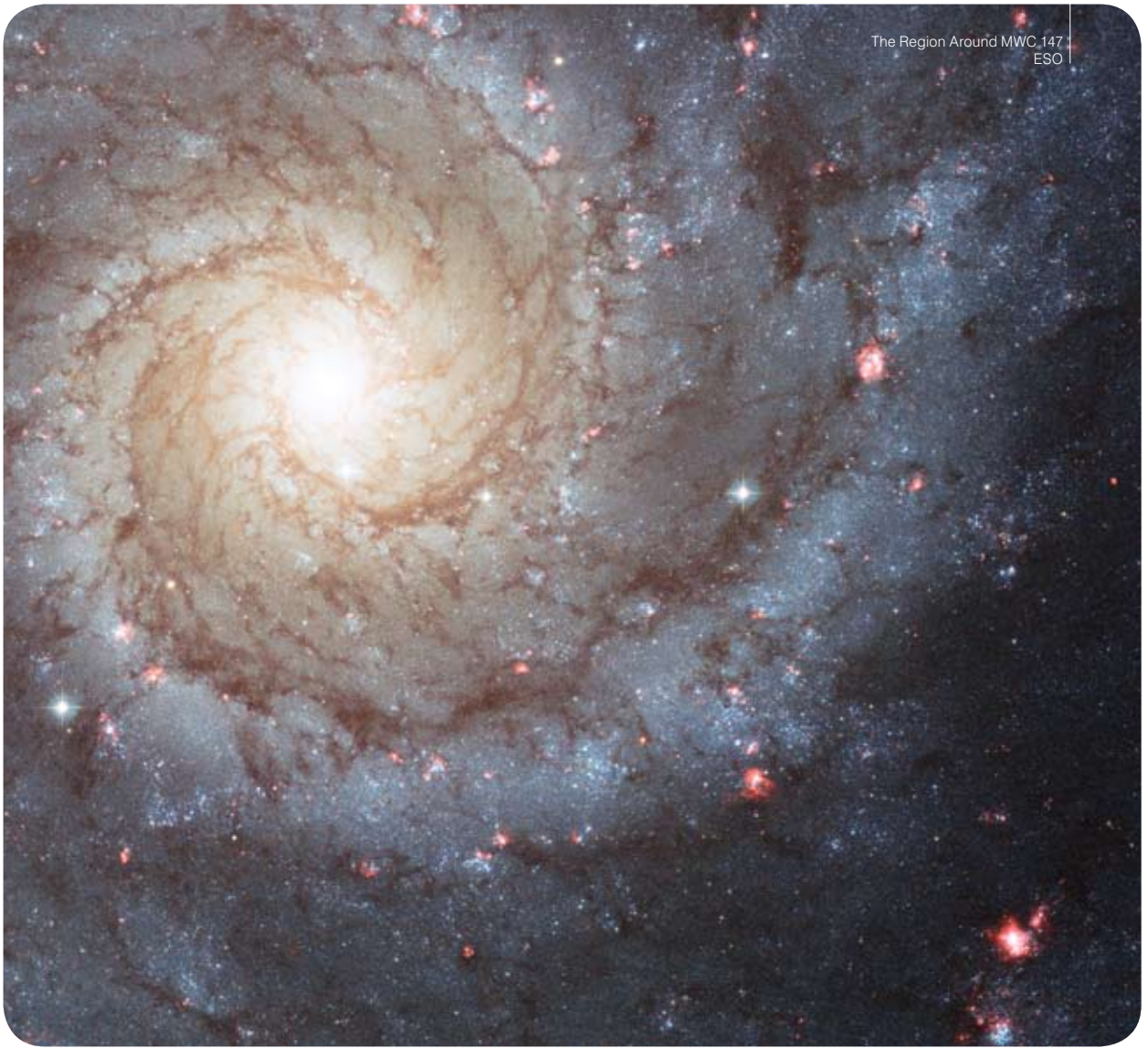
SHAH HAKIMYAR	Ahmad	Engineering Faculty Kabul University	ahmadshah.363@gmail.com
SHALMAN	Johanes	ESO European Southern Observatory	jsahlman@eso.org
SHIDA	Raquel	ESO ePOD	rshida@eso.org
SHIELDS	Jane	Australia's ABC Radio National	Shields.Jane@abc.net.au
SHIVAEI	Irene	University of Tehran	shivaei@starpeace.org
SICLET	Gérard	Academy of Sciences	gerard.siclet@academie-sciences.fr
SIDORENKO-DULOM	Anna	UNESCO	A.Sidorenko@UNESCO.org
SIGMUNDSSON	Vilhjelm	Science Institute Reykjavik	vilhelm@versto.is
SIMMONS	Mike	UCLA University of California	msimm@ucla.edu
SINGH	Garima	India invited student	garima_singh1987@yahoo.co.in
SIREY	Rowena	ESO European Southern Observatory	rsirey@eso.org
SIWICKI	Annz	UNESCO delegation of Australia	sally.mansfield2@dfat.gov.au
SKORBAKK	Ine	University of Oslo	inesk@student.matnat.uio.no
SMITH	Denise	Space Telescope Institute	dsmith@stsci.edu
SMITS	Robert-Jan	European Commission	robert-jan.smits@ec.europa.eu
SOULIER	Jean-francois	Association Etoiles pour tous	jean-francois.soulier2@wanadoo.fr
SOUM	Jean- Francois	CECMED/DRI-M	drim_med.chef@marine.defense.gouv.fr
SOUTHWOOD	David	ESA European Space Agency	David.Southwood@esa.int
SPIRO	Michel	Directeur IN2P3-CNRS	mspiro@admin.in2p3.fr
SPIE	Monique	Observatoire de Paris	monique.spie@obspm.fr
STAAL	Jan	University of Groningen	J.Staal@rug.nl
STANIC	Natasa	Belgrade Planetarium	stanic.natasa@gmail.com
STANLEY	Heather	Cosmotoons, Inc.	heather@cosmotoons.com
STARKENBURG	Tjitske	Kapteyn Institute, Groningen University	t.starkenburg@gmail.com
STAVINSCHI	Magda	Astronomy Institute	magda_stavinschi@yahoo.fr
STEENSNAES	Einar	Executive Board	w.erdelen3@UNESCO.org
STEENSNAES	Ms	Executive Board	w.erdelen4@UNESCO.org
STEINBACH	Raphael	Redshift-live Media	r.steinbach@usm.de
STEINHAUSL	Helene	UNESCO Ambassador Austria	w.erdelen2@UNESCO.org
STOJANOVSKI	Martin	Cyrl and Methodius University	martin@astronomija.com.mk
STONNER	David	NSF National Science Foundation	dstonner@nsf.gov
STRUBS	Peter	Redshift-live Media	p.strub@googlemail.com
SUBASIC	Adela	Astronomical Society Orion Sarajevo	adela_subasic@hotmail.com
SUCHET	Lionel	CNES	lionel.suchet@cnes.fr
SULTAN	A. H.	Sana'a University	ahsultan@y.net.ye
SUN	Wei- Hsin	National Taiwan University	sun@phys.ntu.edu.tw
SUNG	Gi Moon	IAC2009 org. Committee	gimoonc@iac2009.kr
SVECHKAREV	Denis	IYA 100h Cornerstone Project	denis@ukrastrro.org
SWARUP	Govind	Pune Observatory	gswarup29@gmail.com
SWINGS	Jean-pierre	Université de Liège	swings@astro.ulg.ac.be
SZOLLOSI-NAGY	Andras	UNESCO D/HYD	a.Szollasi-Nagy@UNESCO.org
SZOMORU	Arpad	Joint Institute for VLBI in Europe	szomoru@jive.nl
TAFRESHI	Babak	TWAN The World at Night	babaktafreshi@gmail.com
TAHANI	Mohamed Shatir	University of Khartoum	tahanism@yahoo.com
TAKVORIAN	Renelle	Association Pesco Luno	rrrtak@yahoo.fr
TAMBU	Thierry	Ambassade de la Rép. démocratique du Congo	thierrythenakap@yahoo.fr
TANAKA	Hiroya	Nagoya University	fukasemasho@yahoo.co.jp
TANVUAI	Laura	Astronomy Institute	tanvuia@astro.univie.ac.at
TAUBER	Jan	ESA European Space Agency	Jan.Tauber@esa.int
TEIXEIRA DE LIMA	Rafael	Brazilian Astronomy Olympiad	lima.rtd@gmail.com
THACOOR-SIDAYA	Indira	UNESCO delegation of Mauritius	dl.maurice@UNESCO.org
THAKORE	Bijal Bharat	SGAC IYA 2009	beethakore@yahoo.co.uk
THEUREAU	Gilles	Observatoire de Paris	theureau@cnsr-orleans.fr
THIBAUT	Joel	Amicale franco-polonaise duVar	JThib26890@aol.com
THIERY	Sabrina	Observatoire de Paris	sabrina.thiery@obspm.fr
THUILLOT	William	Observatoire de Paris, IMCCE	William.Thuillot@imcce.fr
TITEI	Ania	National College Sibiu	rocket.ania@gmail.com
TOBIN	William	Mt John University Observatory	william.tobin@canterbury.ac.nz
TOMAN	Jakub	Univ of West Bohemia in Pilsen	jakub.toman@seznam.cz
TOMEZZOLI	Giancarlo	EurAstro	gtomezzoli@epo.org
TOMUKUM	Chia	GLOCECOHADIM & IAA	communityfarms@yahoo.co.uk
TONER	Joel	Sky and Telescope	jtoner@newtrackmedia.com
TORRES	Jesus Rodrigo	Rizal Technological University	jrftorres2002@yahoo.com
TORRES-PEIMBERT	Silvia	University of Mexico	silvia@astroscu.unam.mx
TREFOURET	Pierre	CNES	pierre.trefouret@cnes.fr
TUDORICA	Alexandru	Targoviste College	alex.tudorica@gmail.com
URBANCOK	Lubomir	Slovak Union Amateur Astronomers	lubophoto@gmail.com
VACHER	Laurent	Compagnie du Bredin	veronique.felenbok@yahoo.fr
VALLE	Yolanda	UNESCO D/BB	y.valle@UNESCO.org
VALLS-GABAUD	David	Observatoire de Paris GEPI	david.valls-gabaud@obspm.fr
VALOUR	Jerome	Thales Alenia Space	jerome.valour@thalesaleniasspace.com
VAN DER HUCHT	Karel	IAU General Secretary & SRON	K.A.van.der.Hucht@srn.nl
VAN DER HUCHT-EMSBROEK	Henriette	International Astronomical Union	K.A.van.der.Hucht2@SRON.nl
VAN DER WOLK	Guido	Kapteyn Institute, Groningen University	wolk@astro.rug.nl
VAN DRIEL-GESZTELYI	Lidia	Observatoire de Paris	lidia.VanDriel@obspm.fr
VAN LANGEVELDE	Huib	Joint Institute for VLBI in Europe	langevelde@jive.nl
VANAMO-SANTACRUZ	Kirsi	UNESCO Finland delegation	dl.finlande@UNESCO.org

List of Participants

The Region Around MWC 147
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Afghanistan	VANGIONI	Elisabeth	Institut d'Astrophysique	vangioni@iap.fr	France
Germany	VARGAS	Mariana	Colégio ST. Peter's School	lurdesvargas@hotmail.com	Portugal
Germany	VARGAS	Lurdes	St Peter's School	lurdesvargas2@hotmail.com	Portugal
Australia	VARGAS ROSARIO	Yorimar	Universidad Politécnica de Puerto Rico	yvargas26@hotmail.com	Puerto Rico
Iran	VATTOLO	Diane	Saint-Denis	vattolo@free.fr	France
France	VAUCLAIR	Sylvie	Observatoire de Toulouse	sylvie.vauclair@ast.obs-mip.fr	France
France	VAUGLIN	Isabelle	Observatoire de Lyon	vauglin@obs.univ-lyon1.fr	France
Iceland	VAVILOVA	Irina	Kyiv Polytechnical Institute	vavilova@nas.gov.ua	Ukraine
Usa	VEILLET	Christian	Canada-France-Hawaii Telescope	veillet@cfht.hawaii.edu	Usa
India	VERDOES KLEIJN	Gijs	Kapteyn Institute, Groningen University	verdoes@astro.rug.nl	Netherlands
Germany	VERKOUTER	Harro	Joint Institute for VLBI in Europe	verkouter@jive.nl	Netherlands
Australia	VESTRHEIM	Alf	First delegation secretary	w.erdelen5@UNESCO.org	Norway
Norway	VIARD	Thierry	Thales Alenia Space	thierry.viard@thalesaleniasspace.com	France
Usa	VIDAL-MADJAR	Alfred	IAP	alfred@iap.fr	France
Belgium	VIDOJEVIC	Sonja	National Astronomical Committee	sonja@matf.bg.ac.yu	Serbia
France	VIGROUX	Laurent	Institut d'Astrophysique de Paris	vigroux@iap.fr	France
France	VILKS	Ilgonis	Institute of Astronomy	vilks@latnet.lv	Latvia
France	VILLANUEVA	Adela	AAM	adela-villanueva@hotmail.com	France
France	VILLAR MARTIN	Montserrat	Astronomy Institute of Andalusia	montse@iaa.es	Spain
France	VILLONE	Barbara	Astronomy Institute Torino	villone@ph.unito.it	Italy
Netherlands	VOLONTE	Sergio	ESA European Space Agency	Sergio.Volonte@esa.int	France
Serbia	VONDRAK	Jan	Inst of Astronomy RAS	vondrak@ig.cas.cz	Czech Republic
Usa	VYAS	Charitharth	National Institute of Technology	charitharth_vyas@yahoo.co.in	India
Netherlands	WAGNER	Fernand	European Astronomy Education	fernand.wagner@education.lu	Luxembourg
Romania	WAINSCOAT	Richard	University of Hawaii	rjw@ifa.hawaii.edu	Usa
Norway	WALKER	Connie	NOAO National Optical Observatory	cwalker@noao.edu	Usa
Norway	WALKER	Helen	Rutherford Appleton Laboratory	helen.walker@stfc.ac.uk	Uk
Germany	WALKER	Barry	NASA	barry.walker@nasa.gov	Usa
Austria	WANKERL	Barbara	Universe Cluster	barbara.wankerl@universe-cluster.de	Germany
Macedonia	WATANABE	Jun-ichi	NAOJ National Observatory of Japan	jun.watanabe@nao.ac.jp	Japan
Usa	WATZKE	Megan	Center for Astrophysics, Harvard	mwarzke@cfa.harvard.edu	Usa
Germany	WERNLI	Emilie	Observatoire de Lyon	emilie@obs.univ-lyon1.fr	France
Bosnia-herzegovina	WEST	Richard	past IAU General Secretary	richard@rmwest.net	Germany
France	WICKRAMASINGHE	Priyanga	UNESCO Sri Lanka Dlg	dl.sri-lanka2@UNESCO.org	Sri Lanka
Yemen	WIGBELS	Lyn	Centre for strategic studies	lyn.wigbels@cox.net	Usa
Taiwan	WILGENBUS	David	LAMAP	david.wilgenbus@inrp.fr	France
Korea	WILLIAMS	Robert	Space Telescope Science Institute	wms@stsci.edu	Usa
Ukraine	WILLIAMS	Sue	UNESCO BPI	s.williams@UNESCO.org	France
India	WILLIAMS	Jamie	Cook and associates	jamiewilliams@cookandassociates.co.uk	Uk
Belgium	WILLIAMS	Emily	Cook and associates	Jamie.williams1@ntworld.com	Uk
France	WILSON	Robert	Harvard Center of Astrophysics	rwilson@cfa.harvard.edu	Usa
Netherlands	WING-SHAN CHEUNG	Gloria	IYA Hong Kong Coordination	gloria@hokoon.edu.hk	Hong Kong
Iran	WINSA	Maria	Rymdgymnasiet Kiruna	maria.winsa@malmensfriskola.se	Sweden
Sudan	WYATT	Ryan	California Academy of Sciences	rwyatt@calacademy.org	Usa
France	XU	Junjun	Beijing Planetarium	litt@bjp.org.cn	China
République Démocratique Du Congo	YANG	Yi	Beijing Planetarium	haoyimail@gmail.com	China
Japan	YATSKIV	Yaroslav	Main Astronomical Observatory of Ukraine	yatskiv@mao.kiev.ua	Ukraine
Austria	YELLES-CHAOUCHE	Abdelkrim	CRAAG, Observatoire d'Alger	a.yelles@craag.dz	Algeria
Netherlands	YOSHIKAWA	Makoto	Japan Space Agency	yoshikawa.makoto@jaxa.jp	Japan
Brasil	YUN	Kristine	Joint Institute for VLBI in Europe	kyun@jive.nl	Netherlands
Mauritius	ZAHIR AZIZ	Mohammad	UNESCO Ambassador Afghanistan	w.erdelen1@UNESCO.org	Afghanistan
India	ZAHN	Jean-paul	Observatoire de Paris	Jean-Paul.Zahn@obspm.fr	France
France	ZANG-ATANGANA	Laure	UNESCO BB	l.zang-atangana@UNESCO.org	France
France	ZHAO	Gang	National Astronomical Observatories	gzhao@bao.ac.cn	China
France	ZHU	Jin	Beijing Planetarium	jinzhu@bjp.org.cn	China
France	ZINNECKER	Hans	Astrophysical Institute Potsdam	hzinnecker@aip.de	Germany
Romania	ZOUHAIR	Benkhaldoun	Cadi Ayyad University	zouhair@ucam.ac.ma	Morocco
New-zealand	ZOULIAS	Manolis	Greek National Committee	mzoulias@academyofathens.gr	Greece

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Contact

IAU IYA2009 Secretariat
ESO/ESA/ST-ECF
Karl-Schwarzschild-Strasse 2
D-85748 Garching bei München
Germany
E-mail: iya2009@eso.org

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