

Astronomy and its Instruments Before and After Galileo

Venice-San Servolo Isle Italy, 28 September-3 October 2009

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PROGRAMME

MONDAY 28 SEPTEMBER

9:30-10:00 WELCOME ADDRESS

10.00-10.50 Opening of the exhibition "Galileo, Venice and the Moon" / COFFEE BREAK

GALILEO AND HIS TIME: THE VENETIAN CULTURAL ENVIRONMENT

Morning session - Chair: NHA Il-Seong

10:50-11:20 Gino Benzoni, *Culture and Science in Venice and Padova between the end of the 16th and beginning of the 17th century* (introductory talk)

11:20-11:40 Michela Dal Borgo, *The Arsenal of Venice at Galileo's time*

11:40-12:00 Luisa Pigatto, *Galileo and Father Paolo: making the telescope, observing the Moon*

12:00-12:20 Mauro D'Onofrio and Carlo Burigana, *Questions of modern cosmology: a book to celebrate Galileo*

12:20-12:40 Discussion

12:40-14:00 LUNCH

ASTRONOMY AND WORLD HERITAGE INITIATIVE (round table)

Afternoon session - Chair: Gudrun WOLFSCHMIDT

Introducing the UNESCO-IAU Astronomy and World Heritage Initiative

14:00-14:15 Karel van der Hucht, former IAU General Secretary (2006-09), *The IAU-UNESCO Memorandum of Understanding*

14:15-14:45 Anna Sidorenko, Co-ordinator, Astronomy and World Heritage Initiative, UNESCO World Heritage Centre, *Astronomy and World Heritage: New Horizons*

14:45-15:15 Clive Ruggles, Chair, IAU Working Group on Astronomy and World Heritage, *Implementing the Initiative*

15:15-15:30 Discussion: The heritage sites of astronomy and archaeoastronomy in Europe and Africa

15:30-16:00 COFFEE BREAK

16:00-18:00 Round table: Links between the different categories of astronomical heritage
Chair: Clive RUGGLES

short communications by:

Ileana Chinnici, Chair, IAU Working Group on Archives
 Luisa Pigatto, former Chair, IAU Working Group on Historical Instruments
 Anna Sidorenko, UNESCO World Heritage Centre
 Magda Stavinschi, former Chair, IAU Commission 46 (Education)
 Doris Vickers, Scientific Co-ordinator, Ancient Skies Project
 Gudrun Wolfschmidt, Vice-Chair, IAU Working Group on Astronomy and World Heritage

This round-table discussion will focus on links between tangible and intangible, and fixed and immovable, forms of astronomical heritage. Only tangible and immovable "cultural properties" are eligible for inclusion in the UNESCO World Heritage List, but all the other categories of astronomical heritage are of vital importance, both in contributing to the significance of a particular place and for science heritage in general. The aim of the round table will be to formulate recommendations about the ways in which such links should be developed in the future, both in the context of the Astronomy and World Heritage Initiative (and especially its Thematic Study and Database) and more widely.

19:30 Special visit to the Gold Mosaics in St Mark's Basilica (only registered participants and accompanying persons: booking is necessary)

TUESDAY 29 SEPTEMBER

ASTRONOMICAL STRUCTURES THROUGH THE AGES: FROM STONE MONUMENTS TO MODERN OBSERVATORIES

Morning session - Chair: Clive RUGGLES

9:00-9:20 Georg Zotti, *Astronomical orientation of neolithic circular ditch systems (Kreisgrabenanlagen)*

9:20-9:40 Yong Bok Lee, *The alignment of dolmens and cupmarks on capstone as star map at Haman area in Korea*

9:40-10:00 Nha Il-Seong and Nha Sarah L., *Astronomical Observatories in the far eastern world before Galileo*

10:00-10:30 COFFEE BREAK

10:30-10:50 José Pereira Osório, *500 years of astronomical Instrumentation in Portugal*

10:50-11:10 Kevin A. Douglas, *Tracing the Universe's most abundant atom with the world's largest filled-aperture telescope*

11:10-11:30 Hamid M. K. Al-Naimiy, *Iraqi Astronomical Observatories from 900 up to 2000: "Rebuilding the Iraqi National Astronomical Observatory"*

11:30-11:50 Parag Shankar Mahajani, *Cultural, political & scientific trio and ancient India's only astronomical observatory: The Jantar Manta*

11:50-12:10 Seyed Hadi Tabatabaie, Ali Ajabshirizadeh, *Observatories from Maragha Observatory until Galileo's observations*

Poster session

Peter Brandén & Inga Elmquist Söderlund, *The origin of Stockholm Observatory*

12:10-12:30 Discussion

12:30-14:00 LUNCH

MATHEMATICAL AND MECHANICAL INSTRUMENTS FOR ASTRONOMY

Afternoon session - Chair: Bjørn Ragnvald PETERSEN

14:00-14:20 John M: Steele, *The gnomon in Babylonian astronomy***14:20-14:40 Georg Zotti, S: and Mohammad Muzaffari**, *Ghazan khan's astronomical instruments at Maragha Observatory***14:40-15:00 Suzanne Débarbat**, *The first portable quadrants equipped with Galileo's refractors in France***15:00-15:20 Pedro Raposo**, *From Russia with love: Wilhelm Struve (1793-1864) and the great instruments of the Observatory of Lisbon***15:20-15:40 Simone Bianchi, Antonella Gasperini, Daniele Galli, Francesco Palla, Paolo Brenni, Anna Giatti**, *Wilhelm Tempel and his private telescope***15:40-16:00 Françoise Le Guet Tully, Jean Davoigneau, Christine Etienne**, *Modern Observatories and their instruments: Pulkovo's filiation***16:00-16:30 COFFEE BREAK****16:30-16:50 James Caplan**, *Diffraction-limited instruments before and after Galileo***16:50-17:10 Pierluigi Selvelli, Paolo Molaro**, *On the early telescopes in the paintings of J. Brueghel the elder***17:10-17:30 Maryam Farahmand**, *The astronomical use of Camera Obscura***17:30-17:50 Ildikó J. Vincze, István Jankovics**, *Construction of astronomical instruments at the end of 19th century: Jenő Gothard (1857-1909)***17:50-18:10 Ian Stewart Glass**, *The Grubb contribution to telescope technology***Poster sessions****Valeria Zanini**, *The Italian optics at the beginning of the 19th century: The unknown relationship between G: B: Amici and G: Santini***18:10- 18:30 Discussion****WEDNESDAY 30 SEPTEMBER****MATHEMATICAL AND MECHANICAL INSTRUMENTS FOR ASTRONOMY** (continuation)

Morning session - Chair: Ian ROBSON

9:00-9:20 Sang-Hyeon Ahn, *Korean history of telescopes***9:20-9:40 Farhad Rahimi, Rahi Taherniya, Fatemeh Sajadi, Jafar Rostami**, *Representation of some of the Ancient Astronomical instruments of the richest astronomical Museum in Middle East (Holy Shrine Museum of Astan-e-Qodss Razavi, in Mashhad, Iran***9:40-10:00 Isroil Sattarov, Ashraf Akhmedov and Ahliddin R: Sattarov**, *Main instrument of Ulug Beg Observatory - as one of the world largest astronomical facility before Galileo's astronomy***10:00-10:30 COFFEE BREAK****SPACE OBSERVATORIES AS ASTRONOMICAL INSTRUMENTS**

Chair: Ian ROBSON

10:30-10:50 Antonella Vallenari & the DPAC, *The GAIA mission: overview, status update: science cases for follow-up projects*

10:50-11:10 Panagiotis G. Niarchos, *The space observatories as astronomical instruments for observations of binary stars and exosolar planets*

11:10-11:30 Francesco Paresce, *Stellar Populations with the New Hubble Space Telescope*

11:30-11:50 Richard K. Barry & al., *From Michelson and Fizeau to a Space-Borne Infrared Instrument capable of detecting an Earth twin: development and recent accomplishments of Stellar Interferometry*

Poster session

Paul Harvey, *Lunar occultations at far-IR wavelengths - a niche for SOFIA?*

11:50-12:10 Discussion

12:30-14:00 LUNCH

15:30 Visit to the special exhibition of original Galilean documents preserved at the State Archive of Venice and visit to Archive's monumental part (only for registered participants and accompanying persons)

20:30 CONFERENCE DINNER AT SAN SERVOLO (to book and pay on the spot within Monday morning. Cost: 45.00 EURO)

THURSDAY 1 OCTOBER

ASTRONOMY FROM XVII TO XX CENTURY

Morning session - Chair: Magda STAVINSCHI

9:00-9:30 Mordechai Feingold, *Bringing the Heaven to the capacity of all: the Culture of Astronomy from Galileo to Newton and beyond* (introductory talk)

9:30-9:50 Eun Hee Lee and Young Sook Ahn, *Astronomy and astronomical Instruments of Korea during the 17th-18th centuries*

9:50-10:10 Jean-Eudes Arlot, *Four centuries of observations of the Galilean satellites of Jupiter*

10:10-10:40 COFFEE BREAK

10:40-11:00 Kenneth R. Lang, *The serendipitous nature of astronomical discovery*

11:00-11:20 Bjørn Ragnvald Pettersen, *Observations of Galilean moons for geographical longitude determinations in Norway 1761-1804*

11:20-11:40 Valentina Fabbri, *From the construction of the Telescope to the construction of the Heavens: the observations of William Herschel as a specimens hunting*

11:40-12:00 Susana Biro, *Mexican astronomy in the nineteenth century*

12:00-12:20 István Jankovics & Ildikó J. Vincze, *At the dawn of astrophotography. A Hungarian astrophysicist on the turn of 19-20th century*

Poster session

Elvira Botez, *Galileo Galilei in Romania*

12:20-12:40 Discussion

12:40-14:00 LUNCH

ASTRONOMY EDUCATION AND DEVELOPMENT

Afternoon session - Chair: Kenneth R. LANG

14:00-14:30 Magda Stavinschi, *Astronomy Education today* (introductory talk)

14:30-14:50 Yong Bok Lee and Youngsook Ahn, *Observations of Sun's shadow length and direction as a astronomical activity for University students*

14:50-15:10 Massimo Ramella, Giulia Iafrate, Thomas Boch, Françoise Bonnarel, Fabien Chèreau, Pierre Fernique, Florian Freistetter and the Euro-VO AIDA collaboration Team, *At School with the European virtual Observatory*

Poster session

Young Ho Hahn, Young Sook Ahn, and Eung Bum Lee, *Geometrical Analysis and 3-D Simulation of Western-Type Horizontal Sundials in the Eighteenth Century Korea* (poster)

Roger Ferlet, *The European Hands-on Universe project*

15:10-16:00 Discussion

16:00-16:30 COFFEE BREAK

FRIDAY 2 OCTOBER

COMMUNICATING ASTRONOMY WITH THE PUBLIC

Morning session - Chair: Suzanne DÉBARBAT

9:00-9:30 Ian Robson, *The importance of communicating Astronomy to the Public* (introductory talk)

9:30-9:50 Rebekah Higgitt, *The Royal Observatory Greenwich and its publics: past and present*

9:50-10:10 Alison Boyle, *Astronomy and its Instruments in the Museum*

10:10-10:40 COFFEE BREAK

10:40-11:00 Sebastián Musso, *Acoustic Planetarium for blind persons or with amblyopia disorder*

11:00-11:20 Uddhab P. Chaulagain and B. Aryal, *Importance of Astronomy in the development of Society and Nations*

11:20-11:40 Parag Shankar Mahajani, *Astronomy Communication of a new kind: creating low cost, sophisticated astronomical observatories with ancient and modern instruments in the resorts and other public/private places for everyone: experiences, challenges and opportunities for tomorrow; especially for the developing countries*

Poster session

Bjørn Ragnvald Pettersen, Vidar Enebakk, Bjørn Vidar Johansen, Nils Voje Johansen, *The Observatory Museum in Oslo attracting youth to the sciences*

ASTRONOMY AND SOCIETY (public debate)

11:40-12:20 Alan H. Batten, *Astronomers, Telescopes, and Society* (introductory talk)

12:20-13:00 Discussion and Conference Conclusion

13:00-14:30 LUNCH