Fourth
International
Summer School

August, 17th – 22nd 2015

Light and Shadow
Experimental spirit, interdisciplinary approaches and aesthetics in sciences, medicine and poetry

Prof. Dr. Fuat Sezgin Research Foundation for the History of Science in Islam

Museum for the History of Science and Technology in Islam
Monday, the 17th August 2015

Optics

10.00 – 10.30
Welcome and opening addresses by representatives of the Prof. Dr. Fuat Sezgin Research Foundation for the History of Science in Islam, Fatih Sultan Mehmet Vakif University and the Museum for the History of Science and Technology in Islam.

10.30 – 11.00
Year of Light (UNESCO): The past, the present and the future of the science and technology of light
Prof. Dr. Selçuk Akturk (Istanbul Technical University)

11.00–11.15 Tea break

11.15–11.45 Ishāq b. Hunayn’s Translation of Nemesius’ Chapter 7 “On Sight”.
Dr. Peter Starr, Fatih Sultan Mehmet Vakif University, Istanbul

12.00–14.00 Lunch

14.00–14.45 Light and Dark: The ‘Checkered History’ of Early Optics
Prof. Dr. Elaheh Kheirandish (Harvard University, USA)

14.45–15.30
Knowledge in Ibn al-Haytham
Zeynep Kulesi MA (Fatih Sultan Mehmet University, Istanbul)

15.30 – 16.00 Tea break

16.00 – 17.30
Light, Shadow and Images – Historising the Camera Obscura
Maryam Farahmand (PhD candidate, University of Tehran, Iran)

17.30 – 17.45 Tea Break

17.30 – 18.00
Hüsein Şen, PhD Student (Utrecht University, Netherlands)
Tuesday, the 18th of August 2015

Astronomy / Astrology

9.30 – 10.00
The Measurement of time in Tunisia through the History
Prof. Fathi Jarray (University of Tunis, Tunisia)

10.00 – 11.30
The Importance of the Sundial (Al-Mizwalah) for Prayers-Time Keeping in Mosques (Workshop)
M.Sc. Hani Muhammad Ismail Dalee (Astronomy Outreach / QEERI – Qatar Foundation)

11.30–11.45 Tea break

11.45–12.45
Determining the Islamic Prayer Times with an Ottoman Astrolabic Quadrant
Dr. Rob van Gent (Utrecht University, Netherlands)

12.45 – 14.00 Lunch

14.00 – 15.00
The Astrolabe Workshop
M.Sc. Amir Moosavi and Elahe Javadi (University of Theran, Iran)

15.00 – 15.30 Tea Break

15.30 – 16.00
Points of Light in Dark Blue Skies - Fixed Stars and Navigation in the Indian Ocean
Isa Boztemir (MA, Fatih Sultan Mehmet Vakif University, Istanbul)

16.00 – 17.00
The rationale for Astrology
M.Sc. Viktor Blåsjö (PhD student at Utrecht University, Netherlands)
17.00 – 17.15 Tea Break

17.15 – 18.45
The Zawraqī Astrolabe, a reconstruction on the basis of the detailed descriptions by the great mathematician and astronomer Abū Rayḥān al-Bīrūnī
Dr. Wilfred de Graaf (Utrecht University, Netherlands)

Wednesday, the 19th August 2015

Mathematics

9.00 – 10.00
The problem of Ibn al-Haytham with two compasses
Ir. Henk Hietbrink (Utrecht University, Netherlands)

10.00 – 10.30
Calculation of a circle, al-Kāshī
Ruward Mulder and Sander Kooi (Utrecht University, Netherlands)

10.30 – 10.45 Tea break

Sciences of Life and Medicine

10.45 – 11.30
From Alexandrian Medicine to Islamic Medicine: Enlightening Ophtalmiatric Surgery
Dr. Alicia Maravelia (Hellenic Institute of Egyptology), Prof. Dr. Stephanos Geroulanos (Universities of Zürich and Iōannina, International Hippocratic Forum)

11.30 – 12.15
Classic Arabic-Islamic Contributions to Ophtamology
Prof. Dr. Kadircan Keskinbora, (History of Medicine and Ethics, Bahçeşehir University, Istanbul)

12.15 – 13.15 Lunch

13.15 – 14.00
Historical note on light reflex, its pathophysiology and clinical applications, focusing on what is added by al-Rāzī (lat. Rhazes)
Dr. Mojtaba Heydari (Shiraz University of Medical Sciences, Iran)
14.00 – 14.45
Medical aspects of light in Islamic Medicine
Dr. Seyyed Hamdollah Mosavat (Shiraz University of Medical Sciences, Iran)

14.45 – 15.00 Tea Break

15.00 – 15.30
Spiritual Medicine in Islam – Cheering up the Soul by the Perception of Seeing in Ibn Qaḍī Baʿalbakk (13th Century)
Antonia Viertel, MA (PhD student at Münster University, Germany)

15.30 – 16.00 Establishment of a working group for an Ibn Sīnā Herbarium
Prof. Dr. Ingrid Hehmeyer, Dr. Detlev Quintern (introduction), Dr. Peter Starr (Prof. Dr. Fuat Sezgin Research Foundation, Istanbul)

Philosophy and Mystic

16.00 – 16.45
The Role and Function of Light in Suhravardī's Illuminationist Philosophy
Dr. Qodratullah Qorbani (Kharazmi University, Tehran, Iran)

16.45 – 17.30
Mulla Ṣadrā on Existence/Light and Quiddity/Shadow
Dr. Nader Schokrollahi Kharazmi University, Tehran, Iran

17.30 – 17.45 Tea Break

17.45–18.15
Who is Ibn Yaḥyā in Tschaikovsky’s Opera Iolanta /Иоланта?
Dr. Detlev Quintern (Fatih Sultan Mehmet Vakıf University, Istanbul)

20.30 Dinner
Thursday 20th August 2015

Poetry, Sustainable Sciences and Architecture

9.00 – 09.40
Oh, my well-formed cypress, since Muḥibbī saw your face like daylight. Light and darkness in the imagery of Kanuni Sultan Süleyman`s Third Divan
Dr. Christiane Czygan (University of Hamburg, Germany)

10.00 – 10.15 Tea Break

10.15 – 12.15
Natural dyes from plants and their practical applications
Dr. Ingrid Hehmeyer (Ryerson University, Canada)

12.15 – 12.30 Tea Break and Poster Presentation: The Roles of Sustainability in Cosmetics (Poster Presentation)
Nur Suhaili Ramli (Ph.D. Student in Management, University of York, United Kingdom)

12.30 – 14.00 Lunch

14.00 – 14.45 Natural Light`s Effect on Human Health
Muhammad Mahdi Abdollahzadeh, Ph.D. Student in Architecture, Shahid Beheshti University Iran, Roqayyeh Rasoolzadeh, MA Student in Architecture, Kashan University, Iran
14.45 – 16.30 Light or Shadow – Paiens unt dreit? Reversed Dichotomy, Tolerance and Respect and the *East in Boeve de Haumtone* and *Bevis of Hampton*
Dr. Hülya Taflı Düzgün, Araş. Gör. Erciyes University, Turkey

16.30 – 17.00 Concluding Round: Cooperation, Projects, Publication

**Friday 21th August 2015**

Bosporus / Island Tour, late Pick nick and Determining Stars at night

Contact for registration (CV, short letter of motivation):
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