



KEPLER'S HERITAGE IN THE SPACE AGE



## International Conference

### Kepler's Heritage in the Space Age

August 24 – 27, 2009

PRAGUE

National Technical Museum

### **PROGRAM SCHEDULE**

**Monday, August 24, 9:00-11:00**

Registration, information

**Monday, August 24, 11:00-12:30**

Jiří Grygar: Opening Speech (Committee President, Institute of Physics of the ASCR, Prague)

Horymír Kubíček: Opening Speech (The General Director of the National Technical Museum)

Ulrich Fuchs: Opening Speech (Deputy Director, Kulturhauptstadt Europas Linz 2009)

Inauguration of a commemorative postage stamp with a picture of Johannes Kepler

**Monday, August 24, 14:00-18:30**

*Chair: Suzanne Debarbat*

14:00-14:30

Terry Mahoney: The slow death of circular motion

14:30-15:00

A. E. L. Davis: Physical hypotheses versus physical reality: differing implications of these concepts in Kepler's astronomy, especially *Astronomia Nova*

15:00-15:30

Sigurd Toennesen: The missing link of *Astronomia Nova*. Kepler's unrecognized dynamics of planetary motion

15:30-16:00

*Coffee/tea break*

16:00-16:30

Gheorghe Stratan: *Astronomia Nova* in Romania

16:30-17:00

Tomáš Nejeschleba: The Relationship between Johannes Jessenius and Johannes Kepler

17:00-17:30

John McFarland: Let's Translate Kepler's Letters into English

17:30-18:30  
Discussion

**Monday, August 24, 19:30-22:00**

Welcome party in the National Technical Museum, concert, presentation of selected astronomy exhibits, multimedia presentation in the motion-picture theatre of the NTM, launch of the *Astronomia Nova* CD

**Tuesday, August 25, 8:30-13:00**

*Chair: Gerhard Betsch*

8:30-9:00  
Rostislav Rajchl: Astronomy in the work of Jan Amos Comenius

9:00-9:30  
J. V. Field: Kepler's Place in the History of Science

9:30-10:00  
Igor Janovský: Tycho Brahe's Death: Old and New Stories

10:00-10:30  
*Coffee/tea break*

10:30-11:00  
Josef Smolka: Tycho Brahe and Tadeas Hajek

11:00-11:30  
Mario Freitas: A Satellite Amateur Observation as a Motion to Learning Kepler's Third Law and Universal Gravitation

11:30-12:00  
Hiroschi Ozaki: Kepler's Second Law in the Three-Body Problem

12:00-12:30  
Martin Šolc: Brahe and Kepler in arce Benatky: Letters, meetings, observations

**Tuesday, August 25, 14:00-17:30**

Trip to Benatky nad Jizerou (*optional*)

**Tuesday, August 25, 20:00-21:00**

Inauguration of the Kepler Museum in Prague (Karlova Street)

**Wednesday, August 26, 8:30-13:00**

*Chair: A. E. L. Davis*

8:30-9:00  
Zdislav Šíma: Astronomical clocks - Trying to bring them to the life

9:00-9:30  
Vicent J. Martinez: Kepler and Galileo, the strange relation between two great astronomers

9:30-10:00  
Gerhard Betsch: Mathematical subjects in the correspondence of Kepler, Maestlin and Wilhelm Schickard

10:00-10:30  
Suzanne Debarbat: Kepler's Heritage among Astronomers from 1609 to the Space Age

10:30-11:00

*Coffee/tea break*

11:00-11:30

Antonín Švejda: Four Kepler's Steps in Prague

11:30-12:00

Anna Maria Lombardi: The law of equal areas and the law of free fall: Kepler and Galilei skating on thin ice

12:00-12:30

Alena Šolcová: Mathematical aspects of Kepler's work

**Wednesday, August 26, 14:00-18:00**

*Chair: Terry Mahoney*

14:00-14:30

Alena Hadravová, Petr Hadrava: Kepler's Conversation with Galileo

14:30-15:00

Ernst-Reinhold Mewes: How to perceive the Earth's precession by means of Brahe's star catalogue. - Hipparchos' method applied to celestial globes in Kepler's era

15:00-15:30

Michael Rosa: How precise and accurate are Tycho's data really?

15:30-16:00

*Coffee/tea Break*

16:00-16:30

Stefan Porubský: Prostaphaeresis - a forgotten algorithm

16:30-17:00

Jason Ross: Teaching the Astronomia Nova: Pedagogical Techniques and Challenges of Using Computer Animations

17:00-17:30

Tezira Olobo-Lalobo: Keplerian Solutions to Today's Economic, Political and Cultural Crises

17:30-18:00

Discussion

**Wednesday, August 26, 19:00-22:00**

Conference dinner at a ship on Vltava River (*optional*, about 20 minutes on foot from the NTM building through the Letná park)

**Thursday, August 27, 6:00-21:00**

Full-day trip to Linz in Austria (*optional*)

(guided visit of the exhibition "Höhenrausch" (Offenes Kulturhaus Oberösterreich), guided city tour with focus on Kepler, visit of the Kepler Salon (Adolf Riegler and Gerhard Betsch))

**Thursday, August 27, 10:00-13:00**

The alternative program "Prague Astronomical" (guided city walk)