

SCIENTIFIC PROGRAMME

Scientific Organizing Committee: M. Soffel (Germany, Chair), N. Capitaine (France, co-Chair), A. Brzeziński (Poland); P. Defraigne (Belgium), T. Fukushima (Japan), S. Klioner (Germany), D. D. McCarthy (USA), J. Vondrák (Czech Republic), Y. Yatskiv (Ukraine)

Local Organizing Committee: Anke Theuser (Chair), Lutz Graefe, Ralf Langhans, Sven Zschocke

Monday 22 September

09:00 - 09:15 Opening of Journées 2008 & X. Lohrmann-Kolloquium

Session 1: Modern Astrometry, Time and Theory of Earth's Rotation

Chair: N. Capitaine

Invited presentations

- 09:15 - 09:45 S. Klioner, M. Soffel
 The relativistic reference systems as a tool to model Earth rotation
- 09:45 - 10:15 H. Schuh, S. English
 Models for high accurate space geodetic observations

Oral presentations

- 10:15 - 10:30 V. Brumberg, T. Ivanova
 On General Earth's Rotation Theory

10:30 - 11:00 *Coffee Break*

Session 1: continuation

Chair: Ya. Yatskiv

- 11:00 - 11:15 P. Teyssandier
 Some recent developments in relativistic modeling of time and frequency transfers
- 11:15 - 11:30 T. Fukushima
 Canonical and Universal Elements of Rotational Motion of Triaxial Rigid Body
- 11:30 - 11:45 J. Vondrák et. al.
 Towards a long-term parametrization of precession
- 11:45 - 12:00 V. Pashkevich
 Investigation of the short periodic terms of the Rigid and Non-Rigid Earth Rotation Series
- 12:00 - 12:30 Short Review of Posters (M. Soffel)
- 12:30 - 14:00 *Lunch Break*

Session 2: Relativity and Numerical Standards in Fundamental Astronomy, Ephemerides

Chair: T. Fukushima

Invited presentations

- 14:00 - 14:30 B. Luzum et. al.
Current Status of the IAU Working Group for Numerical Standards of Fundamental Astronomy
- 14:30 - 15:00 G. Petit
Relativistic aspects in Astronomical standards and the IERS Conventions

Oral presentations

- 15:00 - 15:15 N. Capitaine
Nomenclature and numerical standards for IAU models and IERS Conventions for Earth rotation
- 15:15 - 15:30 P. Wallace
Recent SOFA Developments
- 15:30 - 16:00 *Coffee Break*

Session 2: continuation

Chair: S. Klioner

- 16:00 - 16:15 W. Folkner
The Planetary Ephemeris Reference Frame
- 16:15 - 16:30 E.V. Pitjeva
Ephemerides EPM2008: the updated model, constants, data
- 16:30 - 16:45 E.I. Yagudina
Lunar numerical theory EPM2008 ephemeris from analysis of LLR data
- 16:45 - 17:00 A. Fienga et. al.
New planetary INPOP: from model to observations
- 17:00 - 17:15 H. Manche et. al.
The de Sitter effect in INPOP ephemerides
- 17:15 - 19:00 Poster Session

Tuesday 23 September

Session 3: Global Geodynamical Modelling

Chair: T. Vondrák

Invited presentations

- 09:00 - 09:30 A. Brzeziński
Recent advances in theoretical modeling and observation of Earth rotation at daily and subdaily periods
- 09:30 - 10:00 R. Gross
An Empirical Model for the Effect of Long Period Ocean Tides on Polar Motion

Oral presentations

- 10:00 - 10:15 A. Rülke et. al.
Realisation of the Terrestrial Reference System by a global GPS network as a basis for global geodynamic investigations
- 10:15 - 10:30 A. Escapa, T. Fukushima
Analytical computation of the translational internal motion of a simple non-isobarycentric three-layer Earth model
- 10:30 - 11:00 *Coffee Break*

Session 3: continuation

Chair: A. Brzeziński

- 11:00 - 11:15 Y. Yatskiv
On optimal detection and estimation of the FCN parameters
- 11:15 - 11:30 A.K. Sen et. al.
Is length of day time series normally distributed?
- 11:30 - 11:45 T. Winkelnkemper
Atmospheric simulations of Earth rotation parameter variations
- 11:45 - 12:00 R. Dill et. al.
Hydrological induced Earth rotation variations from stand-alone and dynamically coupled simulations
- 12:00 - 12:15 M. Müller
Earth rotation parameters obtained from a dynamically coupled atmosphere-hydrosphere model
- 12:15 - 12:30 F. Seitz et. al.
Simulation of Earth rotation parameters with a dynamic Earth system model over a period of 200 years between 1860 and 2059
- 12:30 - 12:45 A. Groh et. al.
Determination of crustal deformations and sea-level changes in the Baltic Sea region
- 12:45 - 14:00 *Lunch Break*

Session 4: Observations of Global Geodynamics

Chair: J. Souchay

Invited presentations

- 14:00 - 14:30 C. Bizouard et. al.
Combination of EOP observations from different techniques
- 14:30 - 15:00 M. Rothacher
GGOS and the Combination of Space Geodetic Techniques

Oral presentations

- 15:00 - 15:15 N. Stamatakos
Recent Improvements in IERS Rapid Service / Prediction Center Products
- 15:15 - 15:30 Z. Malkin
Improving EOP prediction using combination procedures
- 15:30 - 16:00 *Coffee Break*

Session 4: continuation

Chair: A. Nothnagel

- 16:00 - 16:15 W. Kosek et. al.
Contribution of wide-band oscillations excited by the fluid excitation functions to the prediction errors of the pole coordinates data
- 16:15 - 16:30 S. Fetisov et. al.
Earth orientation parameters from GLONASS observations
- 16:30 - 16:45 M. Horwath, R. Dietrich
Geophysical mass redistributions from GRACE: the case of the Antarctic and Greenland ice sheets
- 16:45 - 17:00 N. Sidorenkov
The decade fluctuations in the Earth's rotation and in climate characteristics
- 17:00 - 17:15 Ya. Chapanov et. al.
22-year oscillations of UT1, core angular momentum and geomagnetic field
- 17:15 - 17:30 L. Biskupek, J. Müller
Lunar Laser Ranging and Earth Orientation
- 17:30 - 17:45 W. Zerhouni et. al.
What could bring LLR observations in determining the position of the celestial pole
- 19:00 - *Social Dinner*

Wednesday 24 September

Session 5: Developments in Astronomical Reference Frames

Chair: M. Soffel

Invited presentations

- 09:00 - 09:30 C. Ma
Present and Future Radio Reference Frames
- 09:30 - 10:00 C. Jacobs
Realizations of the celestial reference system at different wavelengths

Oral presentations

- 10:00 - 10:15 A.H. Andrei et. al.
Astrometric and Photometric Variability in Quasars
- 10:15 - 10:30 V. Zharov et. al.
Apparent motion of the radio sources and stability of the celestial reference frame
- 10:30 - 11:00 *Coffee Break*

Session 5: continuation

Chair: D. Gambis

- 11:00 - 11:15 S. Bolotin, S. Lytvyn
Investigation of stability of radio sources from arc-length method.
- 11:15 - 11:30 D. Boboltz et. al.
VLBA Imaging of Celestial Reference Frame Sources at 24 and 43 GHz
- 11:30 - 11:45 J. Souchay et. al.
The LQAC (Large Quasar Astrometric Catalogue) : principle of compilation and related studies
- 11:45 - 12:00 R. Gaume
The Joint Milli-Arcsecond Pathfinder Survey (J-MAPS): Introduction and Science Possibilities
- 12:00 - 12:15 A. Tsvetkov et. al.
The use of wavelet technique for data processing of mass stellar catalogues
- 12:15 - 12:30 Closing of Journées 2008 & X. Lohrmann Kolloquium
- 12:30 - 14:00 *Lunch Break*

Meeting of the NSFA IAU WG: 14:00 - 17:30