
6TH SREAC MEETING

THE SECOND ANNOUNCEMENT

On behalf of the Sub-Regional European Astronomical Committee (SREAC) and the Astronomical Observatory of Belgrade (Serbia), you are cordially invited to take part in the 6th SREAC Meeting and the joined scientific meeting “ASTROPHYSICS AND ASTRODYNAMICS IN BALKAN COUNTRIES IN THE INTERNATIONAL YEAR OF ASTRONOMY”, to be held in Belgrade, Serbia, from September 28th to 30th, 2009. The topics of the meeting are primarily the astrophysics and astrodynamics of the solar system bodies, stars and galaxies.

The Sub-Regional European Astronomical Committee was established within the framework of the “Enhancing astronomical research and observation in South-East Europe and Ukraine” project of the UNESCO Regional Bureau for Science and Culture in Europe (UNESCO-BRESCE). From the Statute of the Sub-regional European Astronomical Committee: “The main objective of SREAC is to elaborate and implement a sub-regional strategy for the development of astronomy in South-East Europe and Ukraine and to strengthen astronomical co-operation in the sub-region, and between the region and countries outside.” This is also the most important aim of the Meeting in September.

We welcome you to Belgrade, and look forward to your participation in the meeting and contributions to the development of astronomy in South-East Europe!

The scientific organizing committee

CONFERENCE TOPICS & INVITED LECTURES

Astrodynamics

Christos Efthymiopoulos: Invariant manifolds and chaotic spiral arms in galaxies

Galaxies and Cosmology

Daniela Kirilova: Neutrino in Cosmology

Milan Ćirković: The Galactic habitable zone and Fermi's Paradox

Stellar & Solar Physics

Osman Demircan: Stellar rotation: theory and observation

Cristiana Dumitrache: Filaments evolution

Ilian Iliev: Surface mapping and tomography: new gems for the crown of stellar spectroscopy

Nevena Markova: Quantitative spectroscopy of OB stars: Theory and Observations

Eleni Rovithis-Livaniou: Latest news from the field of exoplanets

PRELIMINARY CONFERENCE PROGRAM

MONDAY, SEPTEMBER 28

08:00 Registration

09:00 Opening

Section 1: Astrodynamics

09:30 *Efthymiopoulos*: Invariant manifolds and chaotic spiral arms in galaxies

10:00 *Mioc*: Equilibria of Seeliger's problem. Analytic approach

10:20 *Ninković*: Binary 15 Mon and star cluster NGC 2264

10:40 Coffee break

11:10 *Mickaelian*: Proper motion analysis and discovery of new white dwarfs and subdwarfs among the FBS and SBS blue stellar objects

11:30 *Damijanović*: A better reference frame by using improved proper motions of single and double stars

11:50 *Pashkevich*: On the geodetic rotation of the major planets, Pluto, the Moon and the Sun

12:10 *Borisov*: Variation of heliocentric coordinates of asteroid 108 Hecuba

12:30 Lunch

Section 2: Galaxies & Cosmology

14:30 *Kirilova*: Neutrino in cosmology

15:00 *Hafizi*: A review on temporal lag estimation in GRBs

15:20 *Lalović*: Measurement of velocity dispersions of nearby galaxies

- 15:40 *Vince*: Dust attenuation of starburst galaxies
16:00 Coffee break
16:30 *Ćirković*: The galactic habitable zone and Fermi's paradox
17:00 *Vukotić*: Cellular automation of GHZ
17:20 *Golev*: Homogeneous UBVR photometry of the cluster candidates in M33
17:40 *Samurović*: The problem of stellar anisotropies in nearby galaxies

TUESDAY, SEPTEMBER 29

Poster session: from 12:00 to 16:00

Section 3: Stellar & Solar Physics

- 09:00 *Rovithis-Livaniou*: Latest news from the field of exoplanets
09:30 *Voloshina*: Photometric study of selected SU UMa-type dwarf novae
09:50 *Borkovits*: Interferometric observations of the hierarchical triple system Algol
10:10 *Markov*: Spectroscopic observations of UU Cas: preliminary results
10:30 Coffee break
11:00 *Iliev*: Challenges of Modern Astrophysics: Doppler Imaging and Doppler Tomography
11:30 *Bíró*: Nonradial pulsations in eclipsing binaries: methods of mode identification
11:50 *Antonova*: Investigating magnetic field strengths and topologies for pulsing ultracool dwarfs
12:10 *Čadež*: Instabilities in stratified magnetized stellar atmospheres
12:30 Lunch
14:00 SREAC Meeting

Section 4: Amateur Astronomers Meeting

- 20:00 Conference dinner

WEDNESDAY, SEPTEMBER 30

Section 3: Stellar & Solar Physics

- 09:00 *Dumitrache*: Filaments evolution
09:30 *Dumitru*: A case of filament – active region interaction
09:50 *Jovanović*: A new calibration method for water vapor blending of solar lines
10:10 *Goker*: Slow shocks in a current sheet with multi-fluid plasma
10:30 *Mioc*: Coronal mass ejections: a different mathematical approach
10:50 Coffee break
11:10 *Demircan*: Stellar rotation: theory and observation
11:40 *Kuzmanovska-Barandovska*: Iteration factors method for multilevel radiative transfer: convergence properties
12:00 *Konstantinova-Antova*: Are the M giants magnetically active?
12:20 *Zboril*: Stars suspicious of bright spots

- 12:40 *Ekmekçi*: Summarizing the results of photometric analyses of long-term BV observations of UX Arietis
- 13:00 Lunch
- 14:50 *Markova*: Quantitative spectroscopy of OB stars: theory and observations
- 15:20 *Antonopoulou*: V1038 Her and V1051 Her: BVRI photometry, color indices estimation and modeling
- 15:40 *Goker*: An examination of x-ray binaries in Hertzsprung-Russell diagram
- 16:00 *Akkaya*: CCD UBVR photometry of the galactic open clusters: Be89, Ru135 and Be10
- 16:20 *Tsantilas*: Inversed semi-detached binaries (ISDB)
- 16:40 Coffee break
- 17:00 *Bonev*: Recent upgrades of the 2-meter telescope at NAO Rozhen
- 17:20 *Dennefeld*: Observing facilities in Europe, for research and teaching
- 17:50 Closing

Please, plan your talk according to these recommendations:

Invited talk: 30 minutes (25 + 5 for discussion)

Contributed talk: 20 minutes (15 + 5 for discussion)

Poster talks (if the final schedule allows): 2 to 5 minutes

Note that this program is preliminary and might change.

SOCIAL PROGRAM

A conference dinner will be organized on Tuesday, September 29; the details are still pending, but we expect that the price for one person will be around 30 €.

SCIENTIFIC ORGANIZING COMMITTEE

- CHAIR: Ištvan Vince (ivince@aob.bg.ac.yu)
Astronomical Observatory Belgrade, Serbia
- Gordana Apostolovska (gordanaa@on.net.mk)
Faculty of Natural Sciences, Institute of Physics, Macedonia
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- Vasile Mioc (vasile_mioc@yahoo.com)
Astronomical Institute of the Romanian Academy, Romania
- Eleni Rovithis-Livaniou (elivan@phys.uoa.gr)
Athens University, Greece

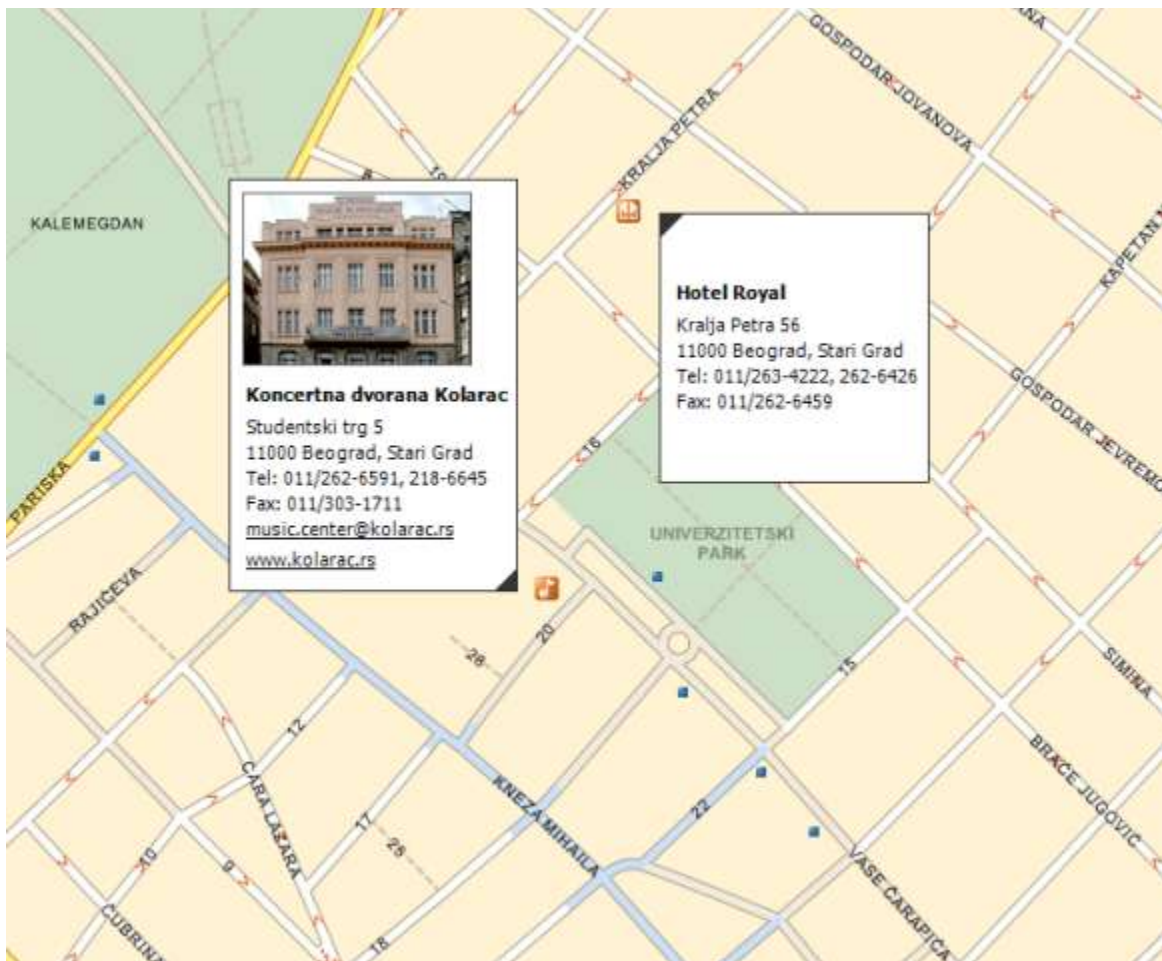
LOCAL ORGANIZING COMMITTEE

- CHAIR: Rade Pavlović (rpavlovic@aob.bg.ac.yu)
- Nikola Božić (bozicn@gmail.com)
- Attila Cséki (attila@aob.bg.ac.yu)
- Ana Lalović (alalovic@aob.bg.ac.yu)
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- Bojan Novaković (bnovakovic@aob.bg.ac.yu)

VENUE, ACCOMMODATION AND WEATHER

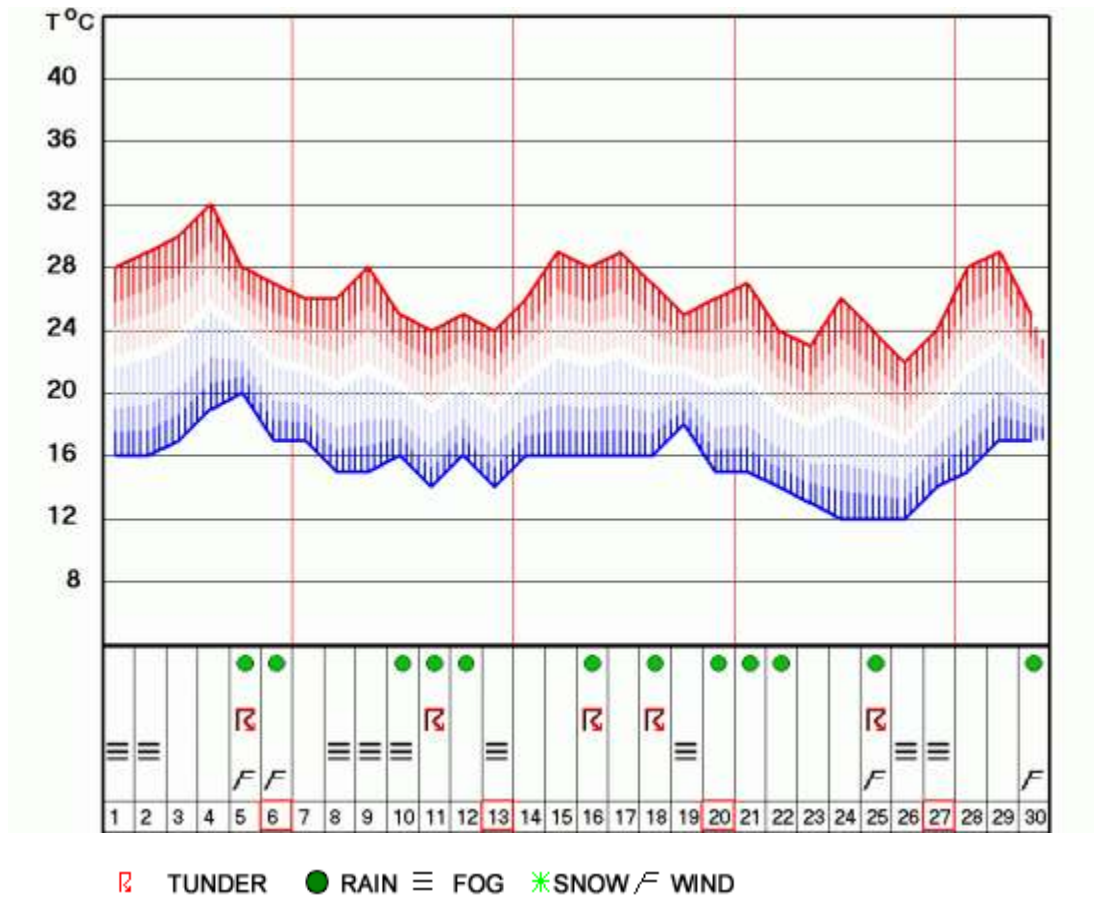
The conference will take place in Belgrade, Republic of Serbia, in *Ilija. M Kolarac Foundation*, which is located in the very center of the city.

Participants who requested financial support for accommodation in Belgrade during the conference will be accommodated in *Hotel Royal*, also located in the center of the city and very close to the conference venue.



If you have applied for the accommodation grant and haven't received a notification about it, or if you need help finding other accommodation, please contact the LOC as soon as possible.

The long-term weather forecast for the end of September predicts warm and mostly dry weather during the conference, with daily temperatures ranging from 20°C to 25°C and nightly temperatures in the range from 12°C to 16°C.



REGISTRATION

The registration is closed.

Registered participants are kindly asked to study the list of participants and the list of abstracts on the website of the conference, www.aob.bg.ac.yu/sreac, and report any mistakes or omissions to the LOC as soon as possible.

CONTACT

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