

**First Announcement  
of the  
International Conference**

**Living Together: Planets, Host  
Stars and Binaries**

**Litomyšl, Czech Republic**

**September 8—12, 2014**

<http://astro.physics.muni.cz/kopal2014>

In celebration of the 100th anniversary of prof. Zdeněk Kopal birth, we are organizing a conference from September 8 to 12, 2014, in his hometown Litomyšl, Czech Republic.

**MEETING ORGANIZERS**

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- [Department of Theoretical Physics and Astrophysics, Faculty of Science, Masaryk University, Brno, Czech Republic](#)
- [Astronomical Institute, Charles University, Prague, Czech Republic](#)
- [Astronomical Institute, Academy of Sciences of the Czech Republic, Ondřejov, Czech Republic](#)
- [Astronomical Institute of Slovak Academy of Sciences, Tatranská Lomnica, Slovakia](#)

Co-operating institutions:

- Czech Astronomical Society (represented by [Variable Stars and Exoplanets Section](#))
- [European Training Centre](#) (ETC) Litomyšl
- [Litomyšl – Castle Hill](#)

**PROGRAM TOPICS**

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- Evolution of angular momentum: Formation of binary stars and of planetary systems.
- Detection of planetary systems. New techniques and new results.
- Results from the space missions for binary stars and exo-planets.
- Evolution of planetary systems. Stability of planetary systems and planetary migrations.
- Internal structure of planets. Planetary atmospheres.
- Planetary systems in binary stars.
- Unsolved problems in structure and evolution of binary stars.
- Directions for further research in binary stars and exo-planets.
- Zdeněk Kopal and his legacy.

## INVITED SPEAKERS:

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- Dan Fabrycky: Planetary systems around single stars observed by Kepler
- Bill Welsh: Circumbinary planets observed by the Kepler satellite mission
- Jerry Orosz: Triple stars observed by the Kepler satellite mission
- Maciej Konacki: Planets in binary-star systems: the ground-based effort
- John Southworth: Transiting planets observed by the Homogenous Studies project
- Andrej Prsa: Eclipsing binary light-curve modelling after the Kepler mission
- Alceste Bonanos: New results on very massive binaries
- Gregory Feiden: Eclipsing binaries as tests of low-mass stellar evolution theory
- Tsevi Mazeh: Kepler/CoRoT eclipsing binaries
- Kelly Hambleton: Heartbeat Stars and Tidally Induced Pulsations
- Matthew Bate: Origins of the statistical properties of binary systems
- Pawel Artymowicz: Formation of binary stars and planets
- Laurent Eyser: Early results from the GAIA mission
- Joe Smak: Cataclysmic variables
- Michal Křížek: Zdeněk Kopal, the numerical analyst
- Ed Budding: Zdeněk Kopal: Astronomer and Teacher
- Jeremy Leconte: Internal structure of extrasolar planets and the link to their host star

## SCIENTIFIC ORGANIZING COMMITTEE (SOC):

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**Chair:** Slavek Rucinski (*University of Toronto, Canada*)

- Maciej Konacki ([maciej@ncac.torun.pl](mailto:maciej@ncac.torun.pl))  
*Nicolaus Copernicus Astronomical Center, Torun, Poland*
- Pavel Koubský ([koubsky@sunstel.asu.cas.cz](mailto:koubsky@sunstel.asu.cas.cz))  
*Astronomical Institute, Academy of Sciences of the Czech Republic, Ondřejov, Czech Republic*
- Mercedes Lopez-Morales ([mlopez@cfa.harvard.edu](mailto:mlopez@cfa.harvard.edu))  
*Harvard-Smithsonian Center for Astrophysics, Cambridge, USA*
- Tsevi Mazeh ([mazeh@post.tau.ac.il](mailto:mazeh@post.tau.ac.il))  
*Wise Observatory, Tel Aviv University, Israel*
- Theodor Pribulla ([pribulla@ta3.sk](mailto:pribulla@ta3.sk))  
*Astronomical Institute of Slovak Academy of Sciences, Tatranská Lomnica, Slovakia*
- Andrej Prša ([andrej.prsa@villanova.edu](mailto:andrej.prsa@villanova.edu))  
*Villanova University, USA*
- Slavek Rucinski (*Chair*)([rucinski@astro.utoronto.ca](mailto:rucinski@astro.utoronto.ca))  
*David Dunlap Observatory, University of Toronto, Canada*  
*Department of Astronomy & Astrophysics, University of Toronto, Canada*
- John Southworth ([jkt@astro.keele.ac.uk](mailto:jkt@astro.keele.ac.uk))  
*University of Warwick, United Kingdom*
- Guillermo Torres ([gtorres@cfa.harvard.edu](mailto:gtorres@cfa.harvard.edu))  
*Harvard-Smithsonian Center for Astrophysics, Cambridge, USA*
- Miloslav Zejda (*co-Chair*)([zejda@physics.muni.cz](mailto:zejda@physics.muni.cz))  
*Department of Theoretical Physics and Astrophysics, Masaryk University, Brno, Czech Republic*

## LOCAL ORGANIZING COMMITTEE (LOC):

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**Chair:** Miloslav Zejda

- Jan Janík, Department of Theoretical Physics and Astrophysics, Masaryk University, Brno ([honza@physics.muni.cz](mailto:honza@physics.muni.cz))
- Jana Macková, European Training Centre, Litomyšl ([jana.mackova@esclitomysl.cz](mailto:jana.mackova@esclitomysl.cz))
- Michaela Severová, Municipal Authorities of the City of Litomyšl, Litomyšl ([michaela.severova@litomysl.cz](mailto:michaela.severova@litomysl.cz))
- Pavel Suchan, Astronomical Institute of Academy of Science, Ondřejov, Prague ([suchan@astro.cz](mailto:suchan@astro.cz))
- Marek Wolf, Astronomical Institute, Charles University, Prague ([wolf@cesnet.cz](mailto:wolf@cesnet.cz))
- David Zandler, Litomyšl - Castle Hill ([david.zandler@zamecke-navrsi.cz](mailto:david.zandler@zamecke-navrsi.cz))
- Miloslav Zejda, Department of Theoretical Physics and Astrophysics, Masaryk University, Brno ([zejda@physics.muni.cz](mailto:zejda@physics.muni.cz))

The organizers can look back to almost 50 years of continuing observational and publication activities in the field of variable star research, and an almost equally long tradition of holding (inter)national conferences (mainly in Brno, CZ), and a 25 year history of international contacts. They also organized the conference [Zdeněk Kopal's Binary Star Legacy](#) in Litomyšl 10 years ago.

## CONTACT ADDRESS:

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### Postal Address:

Department of Theoretical Physics and Astrophysics  
(attn: Miloslav Zejda)  
Faculty of Science, Masaryk University  
Kotlářská 2  
CZ-611 37 Brno  
Czech Republic

### Phone, Fax & E-Mail:

- **Phone:** +420 54949 8600
- **Fax:** +420 54121 1214
- **E-mail:** [kopal2014@physics.muni.cz](mailto:kopal2014@physics.muni.cz) or directly to heads of  
LOC - Miloslav Zejda ([zejda@physics.muni.cz](mailto:zejda@physics.muni.cz), LOC Chair),  
SOC - Slavek Rucinski ([rucinski@astro.utoronto.ca](mailto:rucinski@astro.utoronto.ca), SOC Chair),

**WWW:** <http://astro.physics.muni.cz/kopal2014>

## CONFERENCE CITY - LITOMYŠL:

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The East Bohemian town of Litomyšl was founded in the 13th century on the site of an older fortified settlement on the Trstenice path - an important trading route linking Bohemia and Moravia. The dominant feature of Litomyšl is the monumental Renaissance castle dating from the years 1568-1581. The buildings of the castle are not only exceptional for their architectural refinement, but have also inscribed themselves in history as the birth place of the Czech national composer, Bedřich Smetana. On the elongated square, which is one of the largest in the Czech Republic, a town hall of Gothic origin and a series of Renaissance and baroque houses are found, many of them with arcades and vaulted ground floor rooms. One of the most important of these is the House At the Knights (U Rytířů) with its remarkable facade. In the past, the town was also a significant religious centre; it was in Litomyšl in 1344 that the second bishopric to be established in Bohemia was founded.

The cultural traditions of the town go much beyond regional and national frontiers. The exquisite interiors of the castle, especially the baroque castle theatre, the amphitheatre in the castle park and Smetana's house, all offer varied programmes of concerts and theatrical performances and thus enrich the life of the town throughout the year. Litomyšl came to the public notice in a political context as well: in 1994 the meeting of the seven Central European presidents took place at the castle, and in 1995, the Spanish royal couple visited the town. The chateau complex was included in the UNESCO list of cultural monuments in 1999. Litomyšl was awarded the title "Historical town of the year 2000". For more information see [www.litomysl.cz](http://www.litomysl.cz).

[Recommended tour in Litomyšl.](#)

## TRAVEL INFORMATION:

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### TRAVEL INFORMATION:

Litomyšl is located 150 km east of Prague, 85 km north of Brno, and 50 km south-east of Hradec Králové or Pardubice. There are two main possibilities of reaching the Czech Republic and Litomyšl by plane: Use either the airport in Vienna or in Prague and then continue from these two capitals.

#### 1. Prague – Vaclav Havel airport

connection to the Prague centre - Airport Express bus by [Czech railways](#) or [Prague public transport](#).

Then you can continue to Litomyšl

- by bus from the main bus station Florenc or from the bus station Praha, Černý Most - [see time table](#)
- by train to Česká Třebová, which is 12 km far away from Litomyšl - [search a train](#).

From Česká Třebová to Litomyšl we can arrange transport by private car or you can call taxi 15-20 minutes before your trip. The price is fixed at 300 CZK.

TAXI	Phone number	Payment
TAXI Benátky	+420 722 001 440, +420 722 001 5500	cash/card
TAXI Leva	+420 602 178 401	cash
GRAND TAXI	+420 733 264 264	cash
TAXI Peklo	+420 775 770 200	cash

You can use also the bus transport from Česká Třebová – Litomyšl (approx. 15 km, 16 – 29 min). The bus station is located opposite the railway station building. The bus to Litomyšl is labelled LITOMYŠL on the front window. Get off at the bus stop LITOMYŠL – ZÁMEK (LITOMYŠL - CASTLE) which is about 20 metres from European Training Centre (ETC) building. The fare is 28 CZK per one way journey. Regular departures are listed [here](#).

## 2. Vienna airport

You can your European stay at the Vienna airport in Austria even if you need to obtain a visa for the Czech Republic. An application for a Schengen visa enables you to travel through the Czech Republic and the neighbouring countries. There are two bus companies with a direct connection from the Vienna airport to Brno. <http://www.studentagency.eu/> and <http://www.tourbus.cz/> (the last webpage only in Czech; there is only one bus per day at 17:00 from the airport). From Brno you can continue to Litomyšl by bus or by train - [search bus or train](#).

You can also travel to the railway stations Wien Meidling or Wien Hbf (Main station) using the public transport (City Airport Train, S-bahn or buses) - [see time tables](#). Then one can go to Česká Třebová [by train](#). From Česká Třebová to Litomyšl you can continue as described above.

### *Note:*

There are also small regional airports: [Pardubice](#), [Ostrava](#), [Brno](#), which offer connections to some destinations by means of low-cost airlines.

### **By car:**

Litomyšl is situated on the A-road No. 35 (E442), which is of a good quality, but usually with high traffic volumes. If you want to use a Czech highway you must buy a vignette (CZK 310 for 10 days, CZK 440 for 1 month) - [see details](#). In Litomyšl you can use many parking spaces ([see map here](#)).

### **In general:**

For railway or bus connections the actual information may be found at [Bus and Train Timetables](#)

## CONFERENCE VENUE:

The European Training Centre was established in the newly-reconstructed part of the Castle brewery and offers a pleasant environment not only for work events and training, but also for more festive events and meetings. It is located just next to the Castle Litomyšl. The whole chateau complex was included in the UNESCO list of cultural monuments 1999.

## WEATHER CONDITIONS:

The daily temperature of about +20°C (68°F) is typical for the late summer in September in the Czech Republic. During nights temperatures go down to +10°C (50°F). The short season of showers of rains can appear that time.

## ACCOMMODATION, MEALS:

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Accommodation is offered via the conference registration webpage. In such case we can offer a bit lower prices for accommodation in the listed hotels. For simplicity the accommodation there is arranged only for the stay from September 7<sup>th</sup> (Sunday) to 12<sup>th</sup> (Friday). If you have any other request, please contact the organizers.

Lunches will be provided in the conference dining room which is next to the conference hall. The average price of the main course will be about 150 CZK.

## REGISTRATION:

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Online registration is open via the [conference webpage](#).

### Conference Deadlines

- **Early registration: until June 30, 2014**
- **Late Registration: July 1 - September 1, 2014**

### Conference fee

The conference is self-funded.

The normal registration fee is **6000 CZK**, the late registration fee (after June 30, 2014) costs **7500 CZK**, and the reduced fee for accompanying persons is **2000 CZK**. The full registration fee includes coffee, admission to the reception, an excursion, a concert, an abstract booklet, and a copy of the proceedings. The reduced registration fee will only cover admission to the conference sessions, the reception and the concert. The current exchange rate are available at [Czech National Bank](#), appoximately it is 1 EUR ≈ 27.5 CZK / 1 USD ≈ 20.3 CZK.

Way of payment:

- online by credit card at registration (in case of any problem, please contact LOC)
- by bank transfer to conference bank account at European Training Centre  
107-6654720207/0100  
IBAN CZ7401000001076654720207  
SWIFT code KOMBCZPPXXX  
(All fees necessary for bank transfer are paid by payer.)

All conference fees will be forfeited if cancellation of attendance and accommodation is received after 15 August 2014; 70 % of the fees will be paid back for cancellations received before or on 15 August 2014.

## TALKS, PAPERS:

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The working language of the conference will be English.

The time allocated for an invited review talk is 40 min + 5 min for discussion, while the time allowed for a contributed talk is 15 min + 5 min for discussion. The speaker can use a local computer (Windows) or his/her laptop. We ask all speakers to make certain that their talks actually work (upload and check your presentation in advance). Our technicians will help you.

We invite participants to present their poster contributions during the 2 minutes oral presentations. The recommended poster size is **A1 or A0**.

Oral contributions and posters will be published as a special issue of the ASP Conference Series.

**The abstract submission deadline is August 1, 2014.**

## SOCIAL EVENTS

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Sunday 7<sup>th</sup> – 19:30 The Welcome reception

Wednesday 10<sup>th</sup> – 15:00 Excursion: The Renaissance Castle

Thursday 11<sup>th</sup> – 18:00 Organ concert in the Church of the Finding of the Holy Cross

19:30 Closing reception

## OTHER EVENTS

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From Friday September 12<sup>th</sup> to Sunday 14<sup>th</sup> there will be an annual national meeting organized by the Variable Star and Exoplanet Section of Czech Astronomical Society. Interested persons are welcome to participate in this meeting. This small group of mainly amateur astronomers provide several services widely used by astronomers around the world like the Exoplanet Transit Database, O-C gateway, or the Open European Journal on Variable Stars.

Miloslav Zejda  
chairperson of LOC

Slavek Rucinski  
chairperson of SOC