

## "Baltic Applied Astroinformatics and Space data Processing"

*BAASP 2015 – 4<sup>th</sup> International Scientific Conference*  
20 – 21 August, 2015, Ventspils, Latvia

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### INVITATION TO CONFERENCE FIRST CALL FOR PAPERS

We are glad to invite you to the 4<sup>th</sup> **International Scientific Conference "Baltic Applied Astroinformatics and Space data Processing"** which will be held at **Ventspils University College** and organized by Engineering Research Institute "Ventspils International Radio Astronomy Center" (VIRAC) of Ventspils University College.

#### **Aim of the Conference**

To provide efficient collaboration platform for cross border partnership and knowledge transfer for Baltic astronomers, astrophysicists, space researchers and engineers as well as experts in other interrelated research disciplines like informatics, computer, environmental, geology, geodesy, materials sciences.

#### **Conference Theme**

Space science is being fundamentally influenced and empowered by computation and information technology, and it stimulates further technological developments. Astronomy, like many other fields, is becoming exponentially data-rich, and the tasks of data management, data acquisition, and knowledge discovery become central to our research organisation, bringing together many technical and methodological challenges. Information technology also provides the stage where we collaborate and interact, and publish, preserve, use and disseminate knowledge. The general philosophy behind is to be future-oriented, which determines the emerging discipline of astroinformatics.

Recent challenges are directed to more human-orientated, highly personalized and trustworthy systems enabling their users to cope with the large variety of frameworks, technologies, data volumes and tools needed to accommodate emerging scientific applications. Therefore, one of the areas of focus here is quantitative and qualitative methods for exploiting, predicting, and understanding the value that ICT brings to the astronomers.

#### **Key focus in 2015**

"Astroinformatics, space data engineering and remote sensing".

The scope of the conference covers fundamental and applied research that applies to space technologies, and includes the following:

- ✓ **space science**, including space and atmospheric physics, Earth observation and remote sensing from space, planetary sciences, astrochemistry, astrogeology, astrobiology and life sciences, astronomy and astrophysics;
- ✓ **space engineering**, including communications, navigation, space operations, satellite design, testing, and implementation, engineering of new generation telescopes;

- ✓ **space and industrial IT solutions**, including data acquisition, buffering, signal processing, data correlation, data recording, transfer, processing and archiving, high performance and cloud computing techniques.

**Working language** of the conference is English.

#### **Important Submission Deadlines**

- ✓ **April 20, 2015:** Early registration, abstracts only
- ✓ **May 25, 2015:** Acceptance notification, early payment of the registration fee
- ✓ **June 19, 2015:** Paper submission  
Late registration (only for participants without presentation), late payment (for everybody who has not paid earlier)

#### **Registration**

Please send filled registration form by e-mail: [baasp2015@venta.lv](mailto:baasp2015@venta.lv)

#### **The registration fee is:**

- ✓ 100 EUR before May 25, 2015
- ✓ 120 EUR before June 19, 2015

Conference registration fee will cover: participant package and badge, lunch, dinner, and refreshments during the Conference, publication of the abstract in the Conference Abstract Book.

Method of payment - money transfer to our bank account.

Receiver of money: Ventspils University College

Name of the bank: Valsts kase

Account No. (IBAN): LV23TREL9150140000000

SWIFT: TRELLV22

Purpose of payment: 21399, registration fee for the conference BAASP 2015.

#### **Conference publications**

All abstracts will be published in the Conference Abstract Book with a separate ISBN number.

Abstract: should consist of minimum 1500 characters and maximum 4000 characters (Microsoft Word or Open Office file, Times New Roman, 12 pt, Italic). Structure: introduction, aim, materials and methods of the work, main results, conclusions and key words.

At the end of the abstract the following should be mentioned: author's academic position, scientific degree, name, surname, institution, scientific research areas and e-mail address (10 pt, Normal).

The best accepted research papers will be published in Lithuanian journal "Baltic Astronomy" and "Latvian Journal of Physics and Technical Sciences" (page charges should be covered by authors). Other accepted papers will be published in the Baltic Space Review vol.4, 2015 with an ISBN number.

All papers will be peer-reviewed. Detailed instructions for full papers will be sent on acceptance of abstracts.

### **Scientific Organizing Committee**

Dr. Dmitrijs Docenko (chairman) – University of Latvia, Institute of Astronomy (Latvia) *(to be confirmed)*

Dr. Juris Freimanis (vice-chairman) – Ventspils University College (Latvia)

Dr. Guntars Balodis – Riga Technical University (Latvia) *(to be confirmed)*

Dr. Rihards Balodis – University of Latvia, Institute of Mathematics and Computer Science (Latvia) *(to be confirmed)*

Dr. Nikolai Bochkarev – Sternberg Astronomical Institute (Russia) *(to be confirmed)*

Dr. Dainis Dravins – Lund Observatory (Sweden) *(to be confirmed)*

Dr. Ilmars Eglitis – University of Latvia, Institute of Astronomy (Latvia) *(to be confirmed)*

Dr. Normunds Jekabsons – Ventspils University College (Latvia) *(to be confirmed)*

Dr. Janis Kaminskis – Riga Technical University (Latvia), ETH Zurich (Switzerland) *(to be confirmed)*

Dr. Andrzej Kus – Radio Astronomy Department, Nicolaus Copernicus University (Poland) *(to be confirmed)*

Dr. Laurits Leedjarv – Tartu Observatory (Estonia) *(to be confirmed)*

Dr. Maria Nechaeva – Radiophysical Research Institute (Russia) *(to be confirmed)*

Dr. Mart Noorma – University of Tartu (Estonia) *(to be confirmed)*

Dr. Anu Reinart – Tartu Observatory (Estonia) *(to be confirmed)*

Dr. Boriss Rjabovs – Ventspils University College (Latvia)

Dr. Ivars Smelds – Ventspils University College (Latvia)

Dr. Grazina Tautvaisiene – Vilnius University (Lithuania) *(to be confirmed)*

Dr. Gino Tuccari – National Institute of Astrophysics, Institute for Radio Astronomy of Bologna (Italy) *(to be confirmed)*

Dr. Andris Vaivads – Swedish Institute of Space Physics (Sweden) *(to be confirmed)*

Dr. Juris Zagars – Ventspils University College (Latvia)

*Organizers expect to expand Scientific Organizing Committee by inviting additional members and experts.*

### **Local Organizing Committee**

Dr. V. Avotins (chairman), L. Resele (vice-chairman), R. Trops, E. Fibiga.

### **Preliminary Schedule of Conference**

There will be two types of presentations at the conference: plenary talks (27 minutes talk + 3 minutes for questions), section talks (15-20 minutes, including 3 minutes for questions).

#### Thursday, August 20

8:30-9:00	Registration
9:00-10:30	Opening and plenary session
10:30-11:00	Coffee break
11:00-13:00	Work in sections
13:00-14:00	Lunch
14:00-15:30	Work in sections
15:30-16:00	Coffee break
16:00-18:00	Work in sections
19:00	Conference dinner

#### Friday, August 21

9:00-10:30	Work in sections
10:30-11:00	Coffee break
11:00-13:00	Work in sections
13:00-14:00	Lunch
15:00-23:00	21 <sup>st</sup> anniversary of VIRAC and radio telescope upgrading project closing

event. In the program: VIPs speeches, excursion, and informal part.

In order to avoid technical problems, it is desirable to send the full presentation file by email to [baasp2015@venta.lv](mailto:baasp2015@venta.lv) not later than August 17, 2015. Acceptable formats are .pptx, .ppt, .pdf, maybe archived as .zip files. Our e-mail system accepts files of size not exceeding 5 Mb; if this limit is too stringent then the participant can bring the file with himself (herself) on flash, DVD or CD. Files will be demonstrated only from our computer; it will not be allowed to connect the participant's computer to the projector.

You can also participate with a different presentation or as a listener in a parallel international conference "45th Young European Radio Astronomers Conference 2015" (YERAC 2015) that will be organized in Ventspils University College on the August 19<sup>th</sup>-21<sup>st</sup>. For further information please visit: <http://yerac2015.venta.lv/>.

### **Accommodation and transportation**

You can find the corresponding information about accommodation at Ventspils web site: <http://www.visitventspils.com/en/start/>

Riga International Airport is located 13 kilometers from the city center. Taxi should cost approximately 15 EUR, we recommend to take green Airbaltic taxi. There are also regular bus connections from the airport to the city center: please take bus No 22 (<http://www.riga-airport.com/en/main/passengers/useful-information/getting-to-the-airport/public-transport>). Information how to get from and to Riga International Airport can be found here: <http://www.riga-airport.com/en>.

Ventspils (<http://www.ventspils.lv/eng/>) is located 190 km from Riga. The most convenient way to get to Ventspils is by bus from Riga Bus Station. Please see the bus schedule on <http://www.1188.lv/transport> and allow approximately 3 hours for the trip. Transportation from Riga to Ventspils is also possible by car <http://www.carrent.lv/en/>.

Participants are responsible for their own transportation to and from Ventspils, Latvia, as well as for hotel arrangement and costs.

### **Information and address for correspondence**

Questions regarding the conference should be addressed to the local organizing committee (e-mail: [baasp2015@venta.lv](mailto:baasp2015@venta.lv)).

Phone: +371 63629656, contact person: Liene Resele

Fax: +371 63629660

Address for the correspondence:

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