



# European Union Science Olympiad

EUSO 2015 Klagenfurt  
27.04. bis 03.05.2015







## **Welcome | Dobrodošli | Benvenuti**

For the first time Austria is host of the European Science Olympiad (EUSO), with Klagenfurt at the Lake Woerthersee being the main venue. The team of the Regional Centre for Didactics of Natural Sciences at the University College for Teacher Education Carinthia Viktor Frankl UC (UCTE) has been responsible for bringing this international science competition into the country.

Intensive preparations since 2011 have been necessary to accommodate 150 students and 114 mentors from 25 nations as well as to set up an enjoyable programme. In total 312 persons will take part in the EUSO 2015, i.e. the scientific committee, the staff, the organisational team and the guides from both Estonia and Austria. In the beginning, in 2005 in Galway, Ireland there had been only 10 countries taking part in this competition.

From the 26th of April until the 3rd of May 2015 the participants will not only meet challenges in the realms of physics, chemistry and biology but also get to know Carinthia's most stunning attractions as well as the lifestyle of the southern district of Austria.

We wish all competitors the best during the contest and a great time in Carinthia!

Mag. Peter Holub  
For the organising committee

## European Science Olympiad (EUSO)

The European Science Olympiad (EUSO) is the European Union's natural sciences team competition for biology, chemistry and physics aimed at students aged 16 or younger.

Austria has been taking part in the EUSO since 2008 with two teams (6 students in total).

Talented students are given the opportunity to deepen their interest in the natural sciences and to foster their talent. Experiences made during the EUSO should prepare the students for further international Science Olympiads.

The first EUSO competition, initiated by Dr. Michael Cotter in 2005, was held in Galway, Ireland and only ten countries took part in this competition. Since then the number of participating countries has continually risen. In Klagenfurt there will be 25 nations competing.

For further information on the EUSO please see the international website: <http://www.euso.ie>

Up-to-date information on the EUSO 2015 in Klagenfurt can be found on the national website of the competition: [www.euso.at](http://www.euso.at)



## EUSO 2015 | Time table

Date	Activity	Persons
26.04.	Arrival, Registration	COMP, MCO
27.04.	Opening ceremony Discussion and Translation of Challenge 1	COMP, MCO MCO
28.04.	Challenge 1, BG/BRG Mössingerstraße Trip to Pyramidenkogel Trip to the power plant Innerfragant in the Alps Austrian evening	COMP COMP MCO COMP, MCO
29.04.	Trip to Slovenia und Italy GA Meeting Sightseeing Discussion and Translation of Challenge 2	COMP MCO MCO MCO
30.04.	Challenge 2 Stomp Social activities Trip to Slovenia und Italy	COMP COMP COMP MCO
01.05.	Workshops and EXPI in Gotschuchen Trip to Pyramidenkogel Jury activities Free time	COMP MCO MCO MCO
02.05.	Closing ceremony and farewell party	COMP MCO
03.05.	Departures	COMP MCO

COM: Competitors, C: Country coordinators,  
M: Mentors, O: Observers, V: Visitors

## Kärnten | Koroška | Carinthia

Carinthia is the most southern district of the Republic of Austria and is situated at the boarder of Italy and Slovenia.

The name Carinthia originated presumably from the Celtic (Karantanien) and refers to “Land of friends”.

Still today the slogan “Holidays with friends” is synonymous with lust for life and recreation. The mentality of the Carinthian people as well as the culinary aspects are influenced by their southern neighbours.

The landscape is dominated by impressing mountain ranges, green lush meadows and picturesque turquoise blue lakes.

These settings offer the ideal scenery for tourism, the major income of the country, with the focus of outdoor activities like swimming and hiking in summer as well as skiing in winter.

Among those who have taken advantage of these prerequisites are skiing legend Franz Klammer and ski jumping hero Thomas Morgenstern who have claimed international reputation.





Klagenfurt at the Lake Woerthersee is the capital and largest city in Carinthia. It is not only the educational centre of the country with the Alpen-Adria-University, the University College for Teacher Education Carinthia Viktor Frankl UC and the Carinthian University of Applied Sciences but also a cultural hotspot.

The Eurovision Song Contest winner of 1966 and international known entertainer Udo Jürgens was born in Klagenfurt.

Moreover the literature festival around the Ingeborg-Bachmann-Price enthuses the literate community.

Besides tourism and agriculture, the electronics and microelectronics industry with the biggest employer in the region - Infineon Technologies Austria AG - offers attractive careers in science and technology.

So do LAM Enterprises, another big player in the computing business and the companies of the Lakeside Park.

## **EUSO 2015 | Organisers**

An interdisciplinary team of staff members from the regional Centre for Didactics of Natural Sciences at the University College for Teacher Education Carinthia Viktor Frankl UC is responsible for the organisation and realisation of the EUSO 2015. More than three years of intensive work has been dedicated to the organisational settings. The Austrian Federal Ministry of Education and Women's Affairs is the greater institutional host of the EUSO 2015.

## **EUSO 2015 | Scientific committee**

The Centres for Didactics of Biology, Chemistry and Physics of the Karl-Franzens-University Graz and of the University for Teacher Education Styria are the indispensable partner institutions of the regional Centre for Didactics of Natural Sciences at the University College for Teacher Education Carinthia Viktor Frankl UC. They have intensively worked around 30 months to develop interdisciplinary challenges.

## **Chairman**

Univ.-Prof. Mag. Dr. Konrad Krainer, head of the Institute of Instructional and School Development of the Alpen-Adria-University Klagenfurt. He is a tireless fighter for the quality development at schools, founder and head of the project IMST – Innovations make Schools Top – and the Austrian educational landscape cannot be imagined without him.

## Biology

Mag. Sigrid Holub, University College for Teacher Education Carinthia (Head of the biology team)

Mag. Peter Holub, University College for Teacher Education Carinthia

Mag. Max Ortner, BG/BRG Villach St. Martin

Ass.-Prof. Dipl.-Biol. Dr. Uwe Simon, Karl-Franzens-Universität Graz, Department of Biology Education

## Chemistry

Ao. Univ.-Prof. Mag. Dr. Walter Gössler, Karl-Franzens-Universität Graz, Department of Chemistry Education (Head of the Chemistry team)

Mag. Josefine Jaritz, Karl-Franzens-Universität Graz, Department of Chemistry Education

Mag. Kathrin Krammer, Karl-Franzens-Universität Graz, Department of Chemistry Education

Mag. Dr. Helga Voglhuber, University College of Teacher Education Carinthia Viktor Frankl UC

## Physics

Ao. Univ.-Prof. Mag. Dr. Leopold Mathelitsch, Karl-Franzens-Universität Graz, Department of Physics Education (Head of the physics team)

Mag. Georg Begusch, St. George's Austrian High School Istanbul

Mag. Dr. Gerhard Rath, Karl-Franzens-Universität Graz, Department of Physics Education

HS-Prof. Mag. Dr. Erich Reichel, University College of Teacher Education Styria, Institute for Professionalization of Secondary Teacher Education

Prof. Eduard Schittelkopf, Karl-Franzens-Universität Graz, University College of Teacher Education Styria





Wir bedanken uns bei:

LAND  KÄRNTEN

  
**Klagenfurt**  
am Wörthersee  
**Lakeside**  
SCIENCE & TECHNOLOGY  
PARK

**kelag**

Die Kärntner  
**SPARKASSE**  
Privatstiftung

**WKO**  
WIRTSCHAFTSKAMMER

**Lam**  
RESEARCH

**KÄRNTEN**  
Conversion

**Infineon**

**AUSTROSTAR**

**WIENER**  
STÄDTISCHE

**iv** REGIONALE VEREINIGUNG  
KÄRNTEN

**CTR**  
RESEARCH

**OMV**

Kärntner  
Botanik-  
zentrum

**Microsoft**

Organisation:

**BM** **BF**  
Bundesministerium für  
Bildung und Frauen



**UNI**  
GRIEZ

**RN** KÄRNTEN

**inizia**

Wissenschaftliches Team:

**NAWIMIX**

**foibu** Technisches  
Institut für  
Innovative  
Produktionstechnik

**edg**  
elektro, didaktik-ges  
**pdg** physik, didaktik-ges  
Regionales Fachdidaktikum für Physik