

Reaalteaduste doktorantide konverents 2018  
Workshop-seminar for PhD students

# The Art of a Popular Science Talk



Euroopa Liit  
Euroopa  
Regionaalarengu Fond



Eesti  
tuleviku heaks

## Korraldab | organised by:

Eesti Maaülikool | Estonian University of Life Sciences  
Põllumajandus- ja keskkonnainstituut  
Institute of Agricultural and Environmental Sciences  
Tartu Ülikool | Tartu University  
TÜ Loodus- ja täppisteaduste valdkond  
Faculty of Science and Technology  
12–13 May 2018

EMÜ Limnoloogiakeskus | EULS Centre for Limnology  
Vehendi hotell

## Üritust rahastab:

*Eesti Maaülikooli ASTRA projekt "Väärtusahelapõhine biomajandus"*

Programmi versioon / Program version — 11. mai 2018. a.

### Eesmärgid | Why we do it:

Tulevase teadlaspõlvkonna ja ühiskonna sidususe suurendamine.  
Treenida doktorante esitama oma tööd 'lihtsurelikele-arusaadavas-keeles'  
Populariseerida oma tööd, eriala ja teadust laiemalt tavakuulajale:

- köitvalt
- arusaadavalt
- lühidalt
- atraktiivselt

Vormiks on:

1. eeltoodust lähtuvad doktorantide lühiettekanded oma tööst ja erialast ning
2. arutelud esituste arusaadavuse, köitvuse ja atraktiivsuse teemal.

Kuulajaskonnaks ja hindajateks on teised doktorandid ja teadurid LT erialadelt, meedia, gümnaasiumiõpilaste absoluutne paremik loodusteaduslikel erialadel.

Suulise ettekande ajalimiit on 10 min (+ 10 min tagasiside, arutelu, küsimused).

Kogu üritus on kakskeelne.

To bridge the gap between next generation of scientists and the society.

Training, training, training — to communicate your research to 'mere mortals'

Public outreach, bring your research, your topic, and science in general closer to society and common people:

- absorbingly
- comprehensibly
- concisely
- irresistibly

How we do it:

1. short student talks about their PhD project
2. feedback on conciseness, comprehension, attractiveness

The audience and evaluators are other science and technology PhD students, public media, and high-school students, who are at the absolute top in science and technology.

Talks are 10 min (+ 10 min for feedback).

Language of your choice: English or Estonian

### Präaüikud | Awards:

Parematele esinejatele on auhindadeks sülearvutid.

Eesmärgikohast paremust hindab osalejatest moodustatud komitee. Kes hindab (i) arusaadavust, (ii) huvitavust, (iii) artistlikkust

The best talks will be awarded laptop computers.

The ranking will be done by a committee quasi-randomly picked from the audience. We evaluate (i) how comprehensible (ii) how interesting (iii) artistic skills

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May 12 mai

- 09:00 Ärasõit, Vanemuise alumine parkla, Tartu | Departure, lower parking lot of Vanemuine theatre
- 10:20 Pirukas, morss ja kange kohvi. Majutumine | Light refreshments, find you room
- 10:40 TERVITUS JA SISSEJUHATUS | INTRO AND WELCOME
  - 11:00 **Marju Himma**: Science communication — how to make the most out of it. Teaduskommunikatsiooni lühikursus
  - 11:20 –12.20 **Gleb Maltsev**: Case Training — the Anatomy of a Perfect Talk
- 12:20 MNERAALVESI KOHV SELJASIRUTUS JA HINGETÕMME | MINERAL WATER, CATCH YOUR BREATH
  - 12:40 **Laurits Puust**: Vees lahustuvad järelhelenduvad tsirkoonia nanoosakesed bioloogiliste objektide visualiseerimiseks
  - 13:00 **Kreete Lüll**: Prediabetes traits in association with human gut microbiome
- 13:20 LÕUNA | LUNCH
  - 14:00 **Faiza Summer**: The magic of electric double layer of charges
  - 14:20 **Janek Urvik**: The slow pace of seabird life
  - 14:40 **Siiri Külm**: Values and changes in Estonian cemetery landscape
  - 15:00 **Martin Kala**: Identification of cellular transcription factors modulating human papillomavirus life cycle
  - 15:20 **Tapashi Binte Mahmud Chowdhury**: The Importance of Socioscientific Issues in Promoting Informed Citizenry through Science Education
- 15:40 MNERAALVESI KOHV SELJASIRUTUS JA HINGETÕMME | MINERAL WATER, CATCH YOUR BREATH
  - 16:00 **Taavi Riit**: Oomütsetide globaalne mitmekesisus
  - 16:20 **Yauhen Yakimenka**: Error Correction: Noise, Codes, and Linear Algebra
  - 16:40 **Annika Meitern**: Diurnal patterns in plants
  - 17:00 **Martti-Jaan Miljan**: Timber based composite structures and the case study of the use of glulam structures made of grey alder
  - 17:20 **Jinfeng Zhao** : Electric double layer structure and energy storage characteristics of ionic liquid based systems
  - 17:40 **Diana Pungar** : Connectivity and landscape patterns in human dominated landscapes
- 18:00 JALUTUSKÄIK VEHENDISSE | WALKING TO DINNAR AT VEHENDI
- 18:30 ... ÕHTUSÖÖK, MULJETAMINE | DINNER, CHANGE EMOTIONS

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May 13 mai

- 08:00 HOMMIKUSÖÖK | BREAKFAST

- 08:40 WALKING TO LIMNOLOGY CENTRE

- 09:20 **Marko Eltermann**: A 2-in-1 oxygen gas sensor
- 09:40 **Heiki Lill**: Capacitor and Battery Energy Storage System Sizing Ratio for Wind Microgenerators
- 10:00 **Sandhra-Mirella Valdma** : Measuring the speed of light in optical fibers
- 10:20 **Kristian Kupart**: Materjalide arvutisimulatsioonid fundamentaalfüüsika teenistuses

- 10:40 MNERAALVESI KOHV SELJASIRUTUS JA HINGETÕMME | MINERAL WATER, CATCH YOUR BREATH

- 11:00 **Olivier Etebee Nonga**: Designing a "working" drug molecule - challenges
- 11:20 **Upendra Bhele**: The Ecospace model as a simulation tool for spatial planning scenarios of fish biomass in a large shallow lake
- 11:40 **Oleksandr Karasov**: Observing and experiencing the landscape: synergy of remote sensing and crowdsourcing
- 12:00 **Hamim Syed Jeelani**: Proterozoic Granite Magmatism along the western margin of Nellore Schist Belt - An Implication on crustal accretionary processes

- 12:20 LÕUNA | LUNCH

- 13:00 **Jonathan Willow**: Synergistic interaction between thiacloprid and tebuconazole, and its effect on the parasitoid wasp *Aphelinus abdominalis*
- 13:20 **Kaarel Krjutškov, Friedrich Kaasik, Ronald Väli, Marju Himma, Gleb Maltsev**: Aftermath. What did we learn? Losers and winners. Summary.
- 13:40 Awards. Departure.

