



Training camp 2023

The Art of Giving a Popular Science Talk
May 19 - 20, 2023

Voore guesthouse





This is the version of the booklet for print use. The website of the event can be found at
<https://kodu.ut.ee/~olli/dokonv2023.html>

The open-source \LaTeX template, `AMCOS_booklet`, used to generate this booklet is available at https://github.com/maximelucas/AMCOS_booklet



Contents

About	4
Why we do it?	4
Why the rat-race?	4
A few more hints	5
No hard feelings	5
Organizing committee	5
Timetable	6
Friday, 19 of May	6
Saturday, 20 of May	8
List of Participants	9
Useful Information	12
How to get to the Voore Guest House?	12
Partner Institutions and Sponsors	13
Sponsors	13

About

Why we do it?

Most of us burn a lot of tax-money to do our research. The society has a legitimate right to know what we do. [They want to know — why is the world a better place to live in, once you accomplish your PhD project.](#) Yet to explain the apparently simple thing to the society may not be a trivial task.

As scientists we are obliged to explain complicated phenomena with simple terms. What we commonly do is the opposite — explain even the simplest things through ridiculously complicated wording. Yet we can get better — by training, training, training

If we succeed to spread our word, ideas, the usefulness of our projects in the society — the society by large will become more willing to pay for our fun.

Why the rat-race?

Please try hard to improve your talk skills. Here, every talk will be evaluated by 3 equally weighted criteria:

1. It has to be interesting
2. It has to be comprehensible
3. Your artistic skills (e.g. your voice, pace, articulation, hand- and footwork, font and color selection on slides, keeping time)

There are trade-offs between the criteria. If you discover that cold air is denser than warm air, it is easy to comprehend, but not particularly novel or interesting.

To qualify for a rat-race — the top 3 speakers will get new laptops as awards!

A few more hints



- Know and feel your audience — this is definitely not your working group seminar. We just mere mortals.
- Avoid specific terms. If you have to — use as few as possible.
- Beginning is important — if you loose listeners in the beginning — likely you will not get them back.
- If suitable, begin with something what touches everyone (or most) personally. E.g. every 2nd will wear glasses, every 3rd will die of cancer.
- A cheap trick is to have a bit of apocalypse at the start — e.g. if flooding is your topic, start with images of drowning people in south Asia.

No hard feelings



Chances are that some of you will learn nothing. Those win the laptops, but they learn nothing.

Yet the biggest winners are the losers — we often learn through failures.

As stated in the novel “A good year” by Peter Mayle — “You’ll come to see that a man learns nothing from winning. The act of losing, however, can elicit great wisdom”

Organizing committee



Kalle Olli et Co.

Estonian University of Life Sciences

Institute of agricultural and environmental sciences

Department of hydrobiology and fisheries

University of Tartu

Institute of ecology and earth sciences

Department of botany

Timetable



CS – Institute of Computer Science

GEN – Institute of Genomics

OMI – Institute of Ecology and Earth Sciences

MCB – Institute of Molecular and Cell Biology

PHYS – Institute of Physics

CHEM – Institute of Chemistry

OBS – Tartu Observatory

TECH – Institute of Technology

MED – Institute of Biomedicine and Translational medicine,

PKI – Institute of Agricultural and Environmental Sciences

VET – Institute of Veterinary Medicine and Animal Sciences

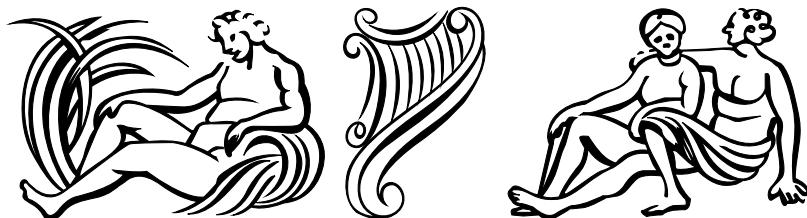
FOR – Institute of Forestry and Engineering

IS – Invited Speaker

Friday, 19 of May

9:00	Ärasõit, Vanemuise 46, Tartu Departure, Vanemuise 46		
9:50	Kondisirutus. Majutumine Light refreshments, find you room		
10:20	Sissejuhatus, mängureeglid Intro, housekeeping		
10:30–11:20	IS	Gleb Maltsev	Case Training — the Anatomy of a Perfect Talk
11:20–11:40	OMI	Sanni Färkkilä	Seeing the forest for the trees
11:40–12:00	MCB	Astrid Laidna	The Role of Bioleaching in the Green Transition
12:00–12:20	TECH	Kristiina Kurg	Skin cancer diagnostics from a drop of blood – is it really possible?
12:20–12:40	GEN	Ivan Kuznetsov	Do genes make us move?
12:40–13:00	TECH	Krõõt Arbo	Edible plant microbiome — a link between soil and human bacteria
13:00–13:40	Lunch		
14:40–15:00	OMI	Toivo Ylinampa	Make macro great again: Yes, we scan!

15:00–15:20	FOR	Salini Chandrasekharan Nair	Torrefaction condensate and microalgae
15:20–15:40	CS	Helena Nulk-Leemets	Testing AI solutions with potential customers
15:40–16:00	OMI	Aliya Sultonova	Cancelled
16:00–16:20	PKI	Margret Jürison	Impact of pesticides on bumblebees
16:20–16:40	FOR	Mart Hovi	Why accumulate the Rain?
16:40–17:00		Water, coffee, stretching	
17:00–17:20	PHYS	Vasiliki Karanasou	Wormholes: Reality or science fiction?
17:20–17:40	PHYS	Paniz Vafaei	Graphene/ TiO ₂ nanostructure integrated with Micro Light-Emitting Diode for NO ₂ detection
17:40–18:00	CHEM	Akmal Kosimov	A Pinch of Salt and a Lot of Pressure: Green Synthesis of Efficient Electrocatalysts
18:00–18:20	TECH	Pranjal Sharma	Smart Polymer Fabrics
18:20–19:20		ÕHTUSÖÖK DINNER	
19:20–		SOTSIALISEERUMINE SOCIALIZING	



Saturday, 20 of May

08:30–09:20	HOMMIKUSÖÖK BREAKFAST		
09:20–09:40	OMI	Isaac Okiti	Optimising Wetland Restoration and Management Strategies for Carbon Uptake
09:40–10:00	MCB	Harleen Kaur	How effective the antibacterial surfaces are in reality!
10:00–10:20	VET	Rohish Kaura	Acute phase proteins as inflammatory markers of respiratory disease in dairy calves — a diagnostic approach/tool
10:20–10:40	PHYS	Laxmipriya Pati	Modified Theories of Gravity
10:40–11:00	CS	Maria Angelica Medina Angarita	Hack your way to a startup
11:00–11:20	Water, coffee, stretching		
11:20–11:40	MED	Mahvish Faisal	Peripheral neuropathy in neuro-toxin-induced animal models of Parkinson's disease
11:40–12:00	GEN	Kateryna Pantiukh	Hidden bacteria from the human gut
12:00–12:20	PHYS	Elena Vinogradova	Cancelled
13:00–14:00	Lunch		
14:00–15:00	Aftermath		

List of Participants

Astrid Laidna	<i>Tartu Ülikool, Molekulaar ja rakubioloogia instituut; Tartu University, Institute of molecular and cell biology</i>
Kristiina Kurg	<i>Tartu Ülikool, Tehnoloogia instituut; Tartu University, Institute of technology</i>
Isaac Okiti	<i>Tartu Ülikool, Ökoloogia ja maateaduste instituut; Tartu University, Institute ecology and earth sciences</i>
Harleen Kaur	<i>Tartu Ülikool, Molekulaar ja rakubioloogia instituut; Tartu University, Institute of molecular and cell biology</i>
Sanni Färkkilä	<i>Tartu Ülikool, Ökoloogia ja maateaduste instituut; Tartu University, Institute ecology and earth sciences</i>
Ivan Kuznetsov	<i>Tartu Ülikool, Genoomika instituut; Tartu University, Institute of genomics</i>
Krõõt Arbo	<i>Tartu Ülikool, Tehnoloogia instituut; Tartu University, Institute of technology</i>
Tanel-Sigmar Sildoja	<i>Tartu Ülikool, Keemia instituut; Tartu University, Institute of chemistry</i>
Toivo Ylinampa	<i>Tartu Ülikool, Ökoloogia ja maateaduste instituut; Tartu University, Institute ecology and earth sciences</i>
Rohish Kaura	<i>Eesti Maaülikool, Veterinaarmeditsiini ja loomakasvatuse instituut; Estonian University of Life Sciences, Institute of Veterinary Medicine and Animal Sciences</i>
Salini Chandrasekharan Nair	<i>Eesti Maaülikool, Metsandus- ja inseneeria instituut; Estonian University of Life Sciences, Institute of Forestry and Engineering</i>
Helena Nulk-Leemets	<i>Tartu Ülikool, Arvutiteaduse instituut; Tartu University, Institute of computer science</i>
Aliya Sultonova	<i>Tartu Ülikool, Ökoloogia ja maateaduste instituut; Tartu University, Institute ecology and earth sciences</i>
Kateryna Pantiukh	<i>Tartu Ülikool, Genoomika instituut; Tartu University, Institute of genomics</i>
Kristiina Kübarsepp	<i>Eesti Maaülikool, Põllumajandus- ja keskkonnainstituut; Estonian University of Life Sciences, Institute agriculture and environmental sciences</i>
Margret Jürison	<i>Eesti Maaülikool, Põllumajandus- ja keskkonnainstituut; Estonian University of Life Sciences, Institute agriculture and environmental sciences</i>

Mart Hovi	<i>Eesti Maaülikool, Metsandus- ja inseneeria instituut; Estonian University of Life Sciences, Institute of Forestry and Engineering</i>
Ivar Zekker	<i>Eesti Maaülikool, Põllumajandus- ja keskkonnainstituut; Estonian University of Life Sciences, Institute agriculture and environmental sciences</i>
Elena Vinogradova	<i>Tartu Ülikool, Füüsika instituut; Tartu University, Institute of physics</i>
Vasiliki Karanasou	<i>Tartu Ülikool, Füüsika instituut; Tartu University, Institute of physics</i>
Paniz Vafaei	<i>Tartu Ülikool, Füüsika instituut; Tartu University, Institute of physics</i>
Akmal Kosimov	<i>Tartu Ülikool, Keemia instituut; Tartu University, Institute of chemistry</i>
Laxmipriya Pati	<i>Tartu Ülikool, Füüsika instituut; Tartu University, Institute of physics</i>
Hassan Yousouph	<i>Eesti Maaülikool, Põllumajandus- ja keskkonnainstituut; Estonian University of Life Sciences, Institute agriculture and environmental sciences</i>
Sofía Vidal Guzmán	<i>Tartu Ülikool, Füüsika instituut; Tartu University, Institute of physics</i>
Yusuph Olawale Abiola	<i>Eesti Maaülikool, Põllumajandus- ja keskkonnainstituut; Estonian University of Life Sciences, Institute agriculture and environmental sciences</i>
Débora Aguiar Gomes	<i>Tartu Ülikool, Füüsika instituut; Tartu University, Institute of physics</i>
Joao Paulo Silva Souza	<i>Eesti Maaülikool, Põllumajandus- ja keskkonnainstituut; Estonian University of Life Sciences, Institute agriculture and environmental sciences</i>
Jesamine Rikisahedew	<i>Eesti Maaülikool, Põllumajandus- ja keskkonnainstituut; Estonian University of Life Sciences, Institute agriculture and environmental sciences</i>
Pranjal Sharma	<i>Tartu Ülikool, Tehnoloogia instituut; Tartu University, Institute of technology</i>
Maria Angelica Medina An-garita	<i>Tartu Ülikool, Arvutiteaduse instituut; Tartu University, Institute of computer science</i>
Mahvish Faisal	<i>Tartu Ülikool, Bio- ja siirdemeditsiini instituut; Tartu University, Institute of Biomedicine and Translational medicine</i>
Francis Gracy Arockiaraj	<i>Tartu Ülikool, Füüsika instituut; Tartu University, Institute of physics</i>

Shivasubramanian Gopinath	<i>Tartu Ülikool, Füüsika instituut; Tartu University, Institute of physics</i>
Agnes Pristy Ignatius Xavier	<i>Tartu Ülikool, Füüsika instituut; Tartu University, Institute of physics</i>
Kajal Samantara	<i>Tartu Ülikool, Tehnoloogia instituut; Tartu University, Institute of technology</i>
Külli Hovi	<i>Eesti Maaülikool, Metsandus- ja inseneeria instituut; Estonian University of Life Sciences, Institute of Forestry and Engineering</i>
Paul Teesalu	<i>Eesti Maaülikool, Põllumajandus- ja keskkonnainstituut; Estonian University of Life Sciences, Institute agriculture and environmental sciences</i>

Useful Information

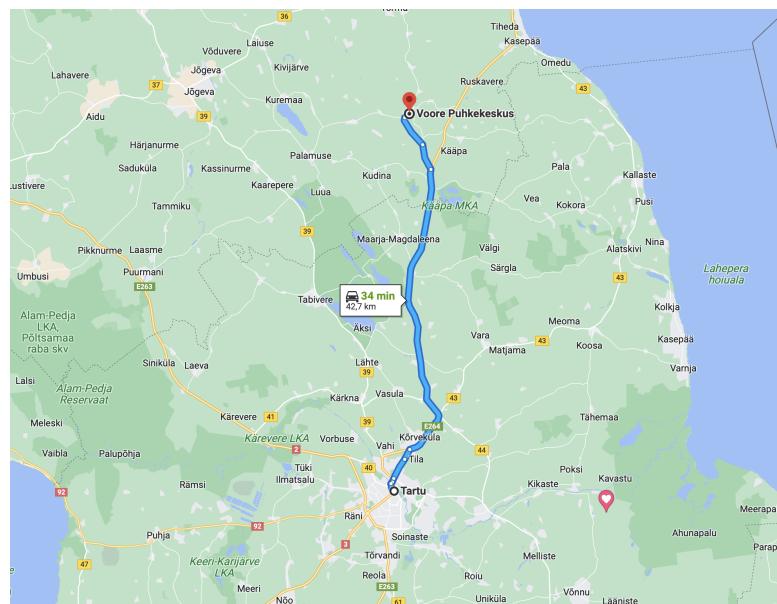
Talks will be held at the **Conference Hall-Auditorium** of Voore guesthouse, situated on the first floor. There will be a standard slide projector. You may be able to plug on your own laptop, or use usb-stick to get your talk to the presentation laptop. Presentations which require heavy bandwidth (slides are on the web) are probably possible, but discouraged.

Coffee breaks and lunches will be served in the in the conference hall.

Wi-Fi was OK a few years ago, hopefully also now. After the dinner our main duty is to get to know each other, socialise and discuss the talks.

How to get to the Voore Guest House?

Voore Guest house is conveniently close to Tartu, but far enough so that you can't escape by foot in the evening. **By car from Tartu** — follow Narva highway for 36 km until the sign indicates Voore Guest House 6 km. Then drive to Voore, over the bridge and you will see the sign Voore Guest House 0.6 km.



Partner Institutions and Sponsors

The event is sponsored by:

- Eesti Maaülikooli / Estonian University of Life Sciences
- Tartu Ülikool, Loodus ja täppisteaduste valdkond / Tartu University, Faculty of Science and Technology
- Kalle Olli – personal funds and time

Sponsors



