Twinning for Promoting Excellence, Ability and Knowledge to develop advanced waste gasification Solutions

Project No: 951308



Summer school 1 training material

WP 4 - Task 4.2 / D 4.1

May 2022













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TWIN-PEAKS website: www.twin-peaks-h2020.com

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Abbreviations

CTH Chalmers University of Technology

D Deliverable

LEI Lithuanian Energy Institute

TUM Technical University of Munich

VMU Vytautas Magnus University

WP Work package

WtE Waste to energy

1 Introduction

The overall objective of the TWIN-PEAKS project is to establish a research and innovation collaboration between LEI, VMU, TUM, CTH and WIP to raise the scientific excellence, capacities and international reputation of LEI and VMU in advanced waste gasification. That imposes the need to widen the network, transfer scientific and soft-skill knowledge and knowhow between the TWIN-PEAKS project partners, as well as involving the high-level professionals from outside the project, and tackle gender equality issues etc. Summer schools are one of a list of the good platforms for doing so.

2 Task 4.2 - Summer schools

Task 4.2 aims at targeting PhD students and early-stage researchers to take participation in summer schools. The task has planned to be started in M12 and will be ongoing until M33.

The first summer school was planned to be hosted by VMU in M18 and the second one by LEI in M30. However, this task started a bit earlier in M10 19-23 July. The first summer school has already taken place on M10 at VMU (July 2021). The first summer school focused on the following topic:

• Topic summer school 1: @VMU – High-quality research preparation and results dissemination

The summer school was announced and promoted in advance. Below, it can be seen the main page of invitation:

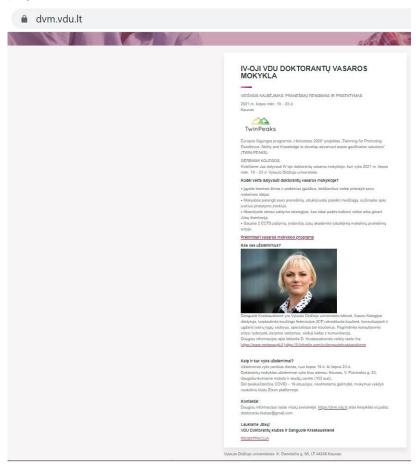


Figure 1.1: Invitation in Lithuanian

The channels for promoting the summer school were VMU web page, doctoral club of VMU, VMU FB and word-of-mouth. That is one of the reasons why summer school succeeded to attract various presenters (senior researchers/professors from the TWIN-PEAKS consortium among them) and more than 50 PhD students and early-stage researchers. Also, certificates of the attendance were issued to all the participants.

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2.1 Summer school content

The main topic of High-quality research preparation and results dissemination was broken into subtopics. The subtopics to reveal the main topic were following:

- Oral presentation of research work:
 - o Principles of persuasive speech
 - Body language
 - Structure and algorithm of a presentation
 - o Structure of answering to the questions, justification of opinion
 - o Powerful speaking: how to speak to be heard: practical insights
 - Charisma and self-confidence
 - Stage fright
- Scientific publication writing and high-quality research presentation: practical insights:
 - Scientific publication writing and high-quality research presentation
 - o Key competencies for scientific practice: Successful scientific presentations
 - Power of visualization
 - How to deal with challenging questions related to and not related to the topic of a research
- Time-management and self-organisation for researchers:
 - Time management in preparing a research and presentation of results
 - o Time management strategies and practices
 - Self-motivation toward long-run goals, self-discipline
- · Gender equality: gender subculturing and style dignity

The subtopics were followed by the practice that were performed both individually and in groups. The presentations and practices were taught by high level professionals D. Kraskauskienė, dr. A. Tamošiūnas, S. Bastek, prof. G. Mažeikis, A. Vilutytė, dr. A. Pažėraitė. The Twin-Peaks project was presented giving oral presentation and using rollup.



Figure 1.2: Twin-Peaks representation



Figure 1.3: Aldona Vilutytė

The agenda of the summer school is provided in the appendixes (in Lithuanian). The freely available material that was prepared in slides format is provided in the appendixes as well. Other material was provided only for personal use.

2.2 Summer school participants

The project KPIs are set following: each summer school will host up to 24 participants. It is a huge success as the set target was exceeded more than twice. The summer school attracted 51 PhD students (the list is provided in the appendixes).

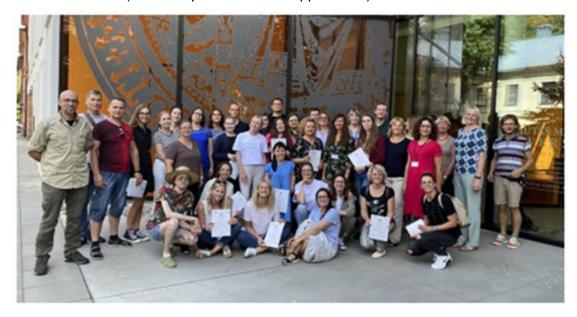


Figure 1.4: Participants of the first Twin-Peaks summer school at VMU (July 2021)

Below, it can be seen the gender distribution of participants compared to other Twin-Peaks activities.

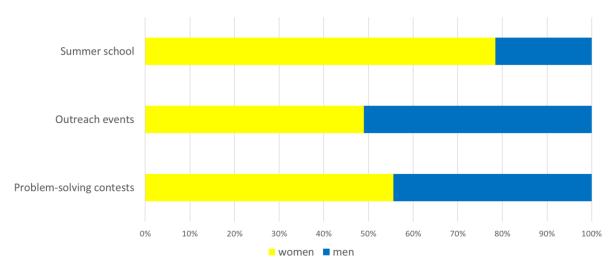


Figure 1.5: Gender spread among activities

After the participation in the summer school all the participants received certificates.

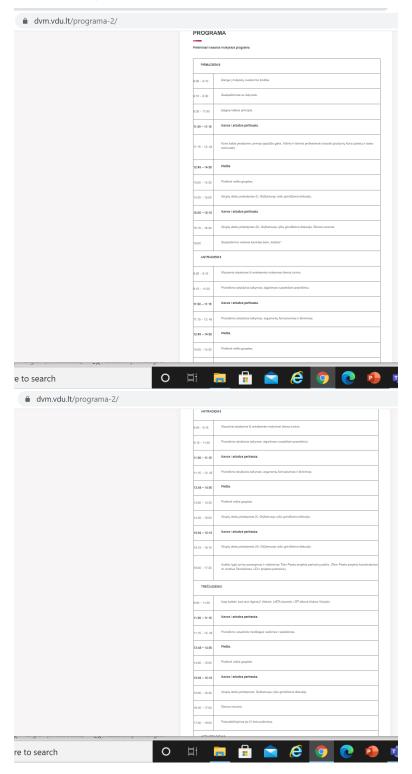


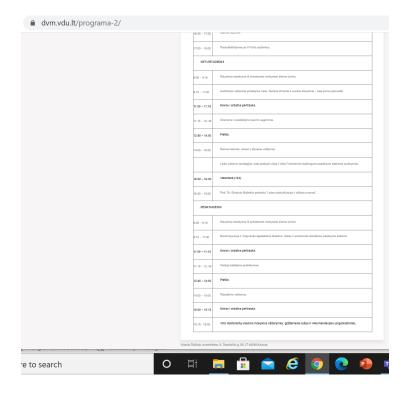
Figure 1.5: Certificate of attendance of the first Twin-Peaks summer school

Summer school activities were accompanied by informal social networking that was also supported by the Twin-Peaks project.

Appendixes

A Agenda of the first summer school M10 at VMU.





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B Presentations given in the slides mode

1st presentation:





"TWINNING FOR PROMOTING EXCELLENCE, ABILITY AND KNOWLEDGE TO DEVELOP ADVANCED WASTE GASIFICATION SOLUTIONS"

(KOMPETENCIJŲ, GEBĖJIMŲ IR ŽINIŲ STIPRINIMAS VYSTANT ATLIEKŲ DUJI TECHNOLOGINIUS SPRENDIMUS) NIMO

DR. ANDRIUS TAMOŠIŪNAS , PROJECT COORDINATOR
PLASMA PROCESSING LABORATORY, LITHUANIAN ENERGY INSTITUTE, LITHU
19-23 JULY 2021

ANIA

PROJECT LOGO & WEBSITE



www.twinpeaks-h2020.eu



CONSORTIUM





















PROJECT DETAILS

• Call identifier: H2020-WIDESPREAD-2020-5

Project start: 2021-10-01Project end: 2023-09-30

Project budget: 899 122,50 EUR (LEI dalis: 262 593,75 EUR)

The project has received funding from the European Union's Horizon 2020 research and innovation Programme under Grant Agreement No 951308



TWIN-PEAKS OBJECTIVES:

Overall objective: to establish a research and innovation collaboration between LEI, VMU, TUM, CTH and WIP to raise the scientific excellence, capacities and international reputation of LEI and VMU in advanced waste gasification.

Specific objectives:

- 1: Develop a joint-research strategy between the TWIN-PEAKS project partners;
- 2: Apply to research grant programmes together as TWIN-PEAKS project partners;
- 3: Transfer scientific and soft-skill knowledge and know-how between the TWIN-PEAKS project partners;
- 4: Build networks of international academic and non-academic partners;
- 5: Reach out to users and stakeholders to understand needs and co-design solutions;
- 6: Pool research infrastructure between the TWIN-PEAKS project partners;
- 7: Tackle gender equality issues at LEI and VMU;
- 283 mprove research management and administration capacities at LEI.

TwinPeaks

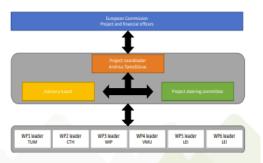
ACHIEVEMENT OF OBJECTIVES:

- · Short term staff exchanges;
- · On-site or virtual training;
- · Conference attendance;
- Dissemination and outreach activities, including organisation of joint summer schools and conferences;
- · Joint application for grants;
- Coaching to establish a new research management and administration unit;
- Diversity initiatives to reach gender balance in research and research management roles.



WORKING PACKAGES IN TWIN-PEAKS

No.	WORKING PACKAGES	WP leader
WP1	Research strategy development and implementation	TUM
WP2	Staff exchanges and training	CTH
WP3	Dissemination, exploitation and communication	WIP
WP4	Early-stage researchers career development and gender equality promotion	VMU
WP5	Research management and administration capacities development	LEI
WP6	Project management	LEI





THANK YOU FOR YOUR ATTENTION!!!

Contact person Dr. Andrius Tamošiūnas

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www.twinpeaks-h2020.eu





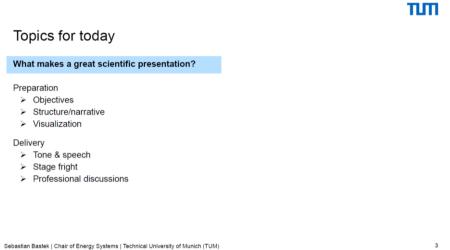


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2nd presentation:



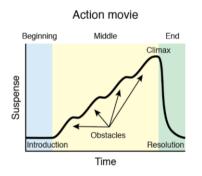


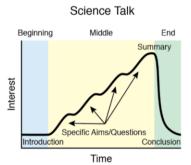


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A great scientific presentation is a great science story with a beginning, middle and end





Sebastian Bastek | Chair of Energy Systems | Technical University of Munich (TUM)

Source: Society for Neuroscience

тип

Topics for today

What makes a great scientific presentation?

Preparation

- > Objectives & framing
- Structure/narrative
- Visualization

Delivery

- Tone & speech
- Stage fright
- > Professional discussions

Sebastian Bastek | Chair of Energy Systems | Technical University of Munich (TUM)



Set yourself objectives for your scientific presentation

"It's like buttoning up a coat: if you start wrong with the first button, everything else will also be wrong." (Lehmann 2008, S.135)

- ightarrow Clearly formulated goals provide guidance for sequence and detail of your presentation
- → What do I want to achieve with my presentation?
- → How do I know that I have achieved my goals?

Sebastian Bastek | Chair of Energy Systems | Technical University of Munich (TUM)

i

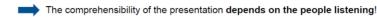


Adapt the presentation for your audience

"The bait needs to suit the fish, not the fisherman "
(Garten, 2015)

Important questions:

- · What prior knowledge does the target group have?
- · What expectations does the target group have?
- · How detailed should the content be presented?



Sebastian Bastek | Chair of Energy Systems | Technical University of Munich (TUM)



Choose and prioritize your contents according to your audience's needs and interests

Core information (= must haves)

- Research question
- Methodology
- Important results
- Conclusions

In-depth information (= nice to have)

- · Details on the methods used
- · Concrete examples

Supplementary information (= as backups)

- Notes on related topics
- Ongoing developments/advancements

Sebastian Bastek | Chair of Energy Systems | Technical University of Munich (TUM)



Avoid the "I-know-it-all" syndrome: Is all of my

тип

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What makes a great scientific presentation?

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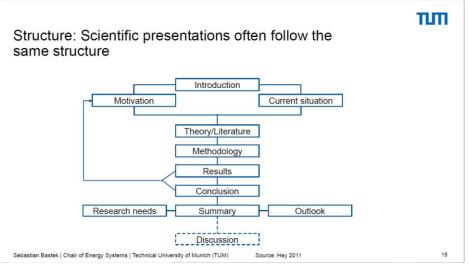
- Objectives & framing
- > Structure/narrative
- Visualization

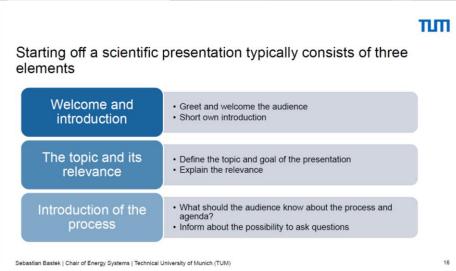
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Sebastian Bastek | Chair of Energy Systems | Technical University of Munich (TUM)

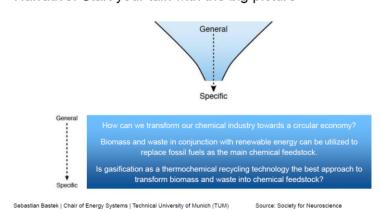
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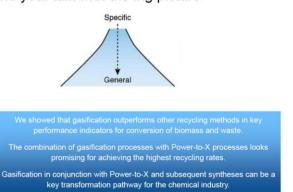
Narrative: Start your talk with the big picture



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TUT

Narrative: End your talk with the big picture



Sebastian Bastek | Chair of Energy Systems | Technical University of Munich (TUM)

Source: Society for Neuroscience

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TUTT

Keep in mind: What is said last usually has the longest lasting effect

- ⇒ Briefly summarize your key points
- ⇒ Formulate 1-3 key take home messages
- ⇒ End your talk with a summary diagram



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TUTI

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2



Slides have a double function: Giving cues to the presenter, supporting the listeners

While the audience is reading, they are not listening.

- · Slides must be easy to read
- · Pictures have to be simple and clear
- Each slide has a heading in the form of a statement (= action title)

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Source: Feuerbacher 2009

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Assertion-Evidence slide structure creates efficient slides that are easy to follow

https://www.assertion-evidence.com/templates.html



- · Assertion is presented in the heading
- Evidence is shown as the slide's content (pictures, text, tables, graphs, etc.)

Advantages:

- · Listeners listen more attentively
- · Slides are more easily captured and not overloaded
- · Logical structure through key statements
- Focus on essential content, better structure

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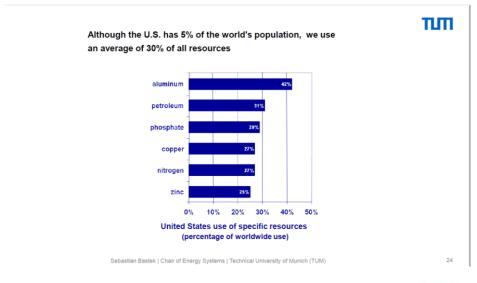


U.S. Resource Use

- The United States uses:
 - 42% of all the aluminum produced worldwide
 - 31% of all the petroleum
 - 29% of all the phosphate
 - 27% of all the copper
 - 27% of the nitrogen
 - 25% of the zinc
- · Approximately 30% of all resources worldwide

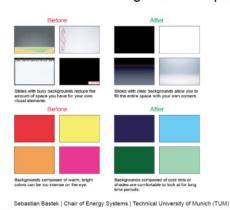
Sebastian Bastek | Chair of Energy Systems | Technical University of Munich (TUM)

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тип

Choose slide backgrounds to optimize foreground content



- · Use backgrounds that lack visual content
- Use white slide backgrounds in relatively small rooms (small classroom, conference room)
- Use a black slide background in relatively large rooms (such as large lecture hall or presentation hall)

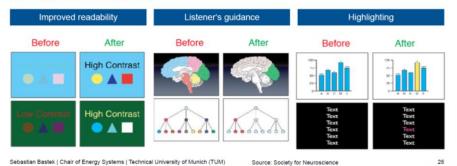
Source: Society for Neuroscience

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Use color wisely to increase readability, guide the listeners view and highlight key aspects of your slides

Make efficient use of collors for...



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TUTT

Ensure that all text is easy to read and keep it to a minimum

- · Aim for a minimum font size of 18 pts
- · Ensure readability from every location in the room
- · Use smaller fonts only for citations, footnotes and helper texts
- · Use bold letters or italics for emphasis, it is harder to read underlined words or ALL CAPS

- A common mistake....

 * How many times have you seen a slide like this! Probably too often.

 The use of too much text on one slide is so common that many of us don't even think to question it.

 If presenters are going to write out everything they are going to say during their delivery, then what is the point of attending their presentation! They might as well send their slide to us over omal and we can read them whenever we want.

....but no less annoying.

- ...but no less annoying.

 Seriously, sides like this are awful. Especially when every sides in the entire presentation looks like this.

 Too much text on a side is one of the top reasons why audiences stop poing attention. On his are done are age, move standing related dialogue because audiences didn't enjoy readity attention. To work the serious audiences didn't enjoy readity attention to some form of the serious audiences didn't enjoy readity attention as some. You'd think we would have learned the same concept in side presentation by now...



Minimize text usage!

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Source: Society for Neuroscience



Topics for today

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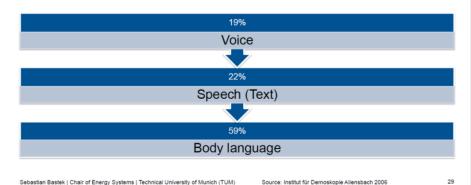
Delivery

- > Tone & speech
- Stage fright
- > Professional discussions

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Factors resulting in a convincing presentation: Voice, speech and body language are highly important and build upon another



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Do not memorize the presentation - speaking and writing styles are different

- · Shorter sentences
- · More verbs
- · More idioms
- · More explanations
- More redundancy



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Source: Feuerbacher 2009

30



Use your voice to structure the presentation

- · Take it a little slower
- · Vary in volume and tempo
- · Lower voices seem more believable
- · You can hear where you come from
- Take breaks!



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Source: Lehmann 2008

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Also use your body language for digital presentations

- Eye contact
- · Smile / friendly facial expressions
- Pay attention to the frame that is being filmed (person and background)
- · Stand or sit
- Can you see your hands?
- · Note the lighting conditions



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Source: Lehmann 2008

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Topics for today What makes a great scientific presentation? Preparation Objectives & framing Structure/narrative Visualization Delivery Tone & speech Stage fright Professional discussions

Stage fright is nothing to be afraid of

- Stage fright provides energy
- Your whole body is in an excited state with sharpened senses and ready to perform at the highest level



- · The start is often most uncomfortable
- · Remember: Perfection is sterile and unsympathetic

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Source: Feuerbacher 2009 & Ebel 2005

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тип

ТИП

Topics for today

What makes a great scientific presentation?

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- Visualization

Delivery

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- Professional discussions

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3



Soliciting and answering audience questions in professional discussions

- Consider rephrasing the question in your own words before providing an answer
- · Prepare for difficult questions from the audience
- · Remain calm and project confidence
- Don't be afraid to say "I don't know" while speculating on an appearer.
- · Offer to talk with the questioner after the Q&A session is over



Sebastian Bastek | Chair of Energy Systems | Technical University of Munich (TUM)

Source: Society for Neuroscience

Source: Society for Neuroscience

Key take-aways

Define your objectives

Adapt your presentation to your audience's needs

Have a clear structure: go from big picture to specifics and vice-versa

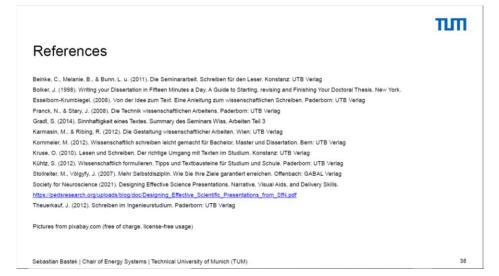
Focus on making your slides easy to understand and follow: less is more

Rehearse your presentations to be convincing: in voice, content and body language

Stage fright is your friend

Lead your Q&A sessions with confidence and humility

But above all: Be yourself and have fun!



The presentation and training material by D. Kraskauskienė was given in hand to each participant. No slides were used for presentations given by G. Mažeikis, A. Vilutytė and dr. A. Pažėraitė, only face-to-face communication and interaction.

C List of the first summer school participants

No.	Name	Surname
1	Rūta	Kembrytė
2	Kotryna	Linauskienė
3	Domantas	Milius
4	Monika	Kelpšienė
5	Jovita	Janavičiūtė
6	Nijolė	Vailionytė
7	Jevgenija	Česnauskė
8	Aida	Skersienė
9	Silva	Katutytė
10	Anna	Pilarczyk-Palaitis
11	Raimundas	Savukynas
12	Agnė	Lisauskaitė
13	Sonata	Čerkauskaitė
14	Vesta	Aleknavičiūtė
15	Justinas	Baleišis
16	Matas	Grubliauskas
17	Monika	Stankienė
18	Irmina	Beneševičiūtė
19	Tadas	Šaulys
20	Gintarė	Leckė
21	Paulina	Amšiejūtė
22	Ingrida	Kazlauskienė
23	Jolita	Ančlauskaitė
24	Miglė	Jakučionytė-Skodienė
25	Giedrė	Kurmilavičienė
26	Ramunė	Grigalevičiūtė
27	Gabrielius Edvina	
28	Andrius	Šmitas
29	Urtė	Stulpinaitė
30	Aušra	Bakšinskaitė
31	Dovilė	Galdauskaitė
32	Rūta	Kupetytė
33	Vaiva	Kazanavičiūtė
34	Ramunė	Sližytė
35	Judita	Giparaitė
36	Erika	Juškaitytė
37	Julija	Grigėnaitė
38	Andrius	Puksas
39	Rūta	Repovienė
40	Mindaugas	Aikas
41	Rolandas	Uscila
42	Natalja	Gončiarova
43	Tetiana	Ponomarenko
44	Miglė	Munderzbakaitė
45	Akvilė	Stankutė
46	Aurelija	Ramanauskaitė
47	Žygimintas	Menčenkovas
48	Loreta	Bisikirskienė
49	Dovilė	Grickevičiūtė
50	Laima	Skauronė
51	Simona	Lukošiūtė