

Summary on Workshop on Pre-treatment possibilities for different industrial effluents

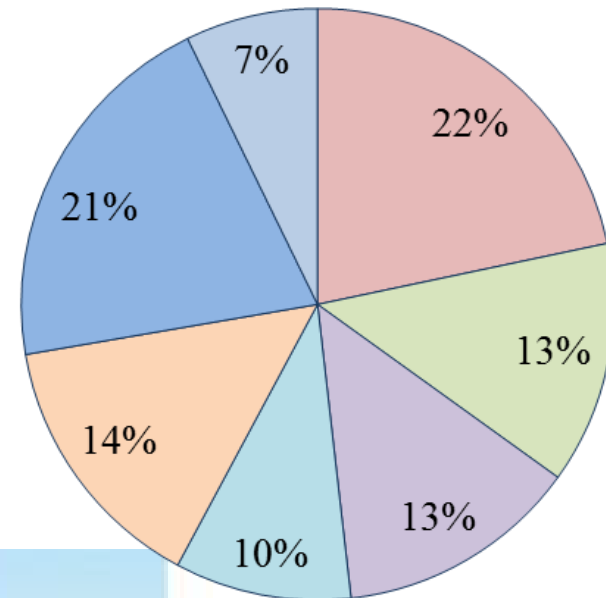


27-28 November
Kaliningrad (Russia)

Involvement

- 83 participants
- 8 countries:

Finland
Sweden
Estonia
Lithuania
Latvia
Poland
Russia
Belarus



Authority	Expert organisation
Industry	Other
University	Water utility
WWTP	

Main objectives (27th of November)

Management of industrial wastewaters in municipal networks

The current situation in Kaliningrad region was discussed:

There are 15 WWTPs around the region with common capacity 135 520 m³/day.

WWTP of Kaliningrad city were built in 2015 with capacity 150000 m³/day. This allowed to exclude the hot spot No.67 from HELCOM hot spots list in June 2019.

New environmental regulations on federal level: process transition to complex ecological permits for industries of 1st categories (where some water utilities included) based on the best available technologies.

Pre-treatment at different industrial sectors

The waste water treatment system on the factory LCC “Produkty Pitania – Kombinat” was reviewed. The factory treated and discharged effluent to open water bodies. With purpose of decreasing their impact to the environment, heads of the factory decided to join to the centralize system.

The review of current industrial waste water treatment technologies, used in Russia, was provided by representative of expert organization “My project”.

The most developing industry in the waste water treatment is food production.

The main problems of waste water treatment are: high COD value in the waste waters, high energy consumption of classical waste water treatment, active sludge swelling and big amount of excess sludge after wastewater treatment.

Main objectives (27th of November)

BSR WATER project and the Baltic Smart Water Hub

Participants has met with the Baltic Smart Water Hub, tested it in using and gave their feedback on it. Russian stakeholders found the Hub very useful instrument. The main suggestions for it's developing (for possible using in Russia) were: possibility to translate information in the Hub, correlations with Russian legislation, add the pages for professional events information and space for adding some materials like guidelines, articles , presentations from events and ect.

Investments and piloting in project BEST

At Latvijas Piens (dairy factory) the building of WWTP has started on September 2019, commissioning of waste water pre-treatment plant is planning on February-March.

The tender on constructing a bigger balancing tank in E-Piim Tootmine Ltd has failed due to the incomplete offer, new one is in preparation. New sampling equipment for Põltsamaa Varahaldus Ltd. has bought and tested – Portable sampler P6 Mini Maxx.

Impact of inhibitors on biological wastewater treatment processes were studied by specialists of Riga Technical University. The effect of next inhibitors were provided: ammonia, ionized ammonia equilibrium (NH_4^+), free ammonia (NH_3^-) – FA, sodium chloride (NaCl).

The next part of experiment on analyzing, whether it is possible to achieve better treatment efficiencies by manipulating the tertiary treatment step in the cities Ādaži and Viimsi were presented by Tallinn University of Technology.

Main objectives (28th of November)

Site visit at Fish can industrial complex LCC “RosKon” and municipal WWTP “OKOS”

Visits were organized for meeting a good example on the WWTP and the factory discharging their effluents to WWTP within the condition of the specialized rules of nature using (resort area of the region). The quality of the waste water treatment on the both of the sites complies with the national and international regulations.

Industrial wastewater treatment in municipal networks – case Russia

First part was devoted to the changes in the structure of water sector. Issues of combining water utilities in the Leningrad and Kaliningrad regions were discussed. Within the framework of this section, representatives of the State Unitary Enterprise “Lenoblvodokanal” shared their experience, gave comments and recommendations on the organization of same process in the Kaliningrad region

The second part of the round table was devoted to the issue of continuing education for specialists in the wastewater treatment sector: needs, opportunities, prospects. Representatives of the Information Center of the State Unitary Enterprise “Vodokanal of St. Petersburg”, together with the St. Petersburg State University of Architecture and Agriculture, demonstrated successful cooperation experience in the field of training qualified professionals for water utilities and wastewater treatment plants. Also, the main points and prospects of training qualified professionals in the Kaliningrad region were considered.

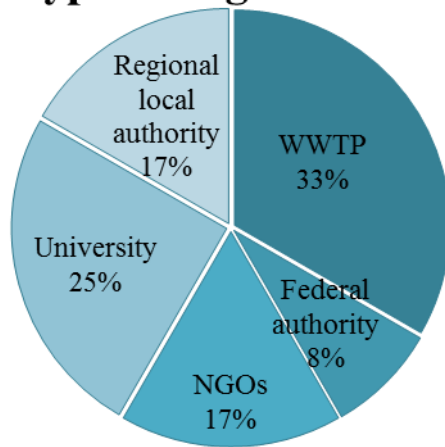
Gallery

Materials of the event:
<https://cloud.mail.ru/public/nfhb/5j3kYVqbb>

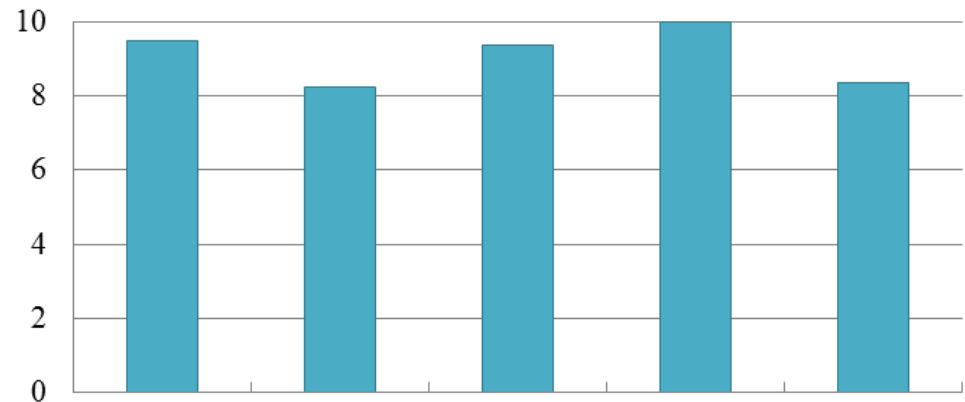


“Testograf” questionnaire results

Type of organization

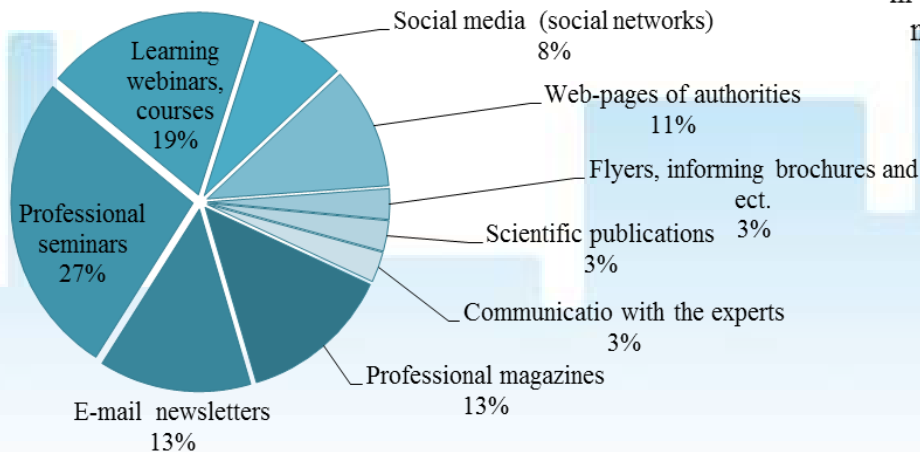


Totally, 12 responds were collected



Management of industrial wastewaters in municipal networks
Pre-treatment at differing industrial sectors
Investments and piloting in project BEST
BSR Water
Round tables

The source of getting information



Evaluation of the workshop sections

“Testograf” questionnaire results

The interesting presentations were: BSR
Water project, Pre-treatment and
autocracy

Very useful information were provided on
the round table section

The event is very useful and informative,
maybe information on it have to be widely
spread for bigger amount of participants

Inviting of regional executive and supervisory
authorities will increase the result of decisions.
Invitation of public organizations and unions - an
additional information occasion

It would be nice to see more practical
information

The outputs of the BEST project should be
more informative and easy understandable

One big issue is language barrier which was
solved in the workshop with simultaneous
translation, thank you!

It would be nice to have such events more
frequently

Pre-treatment at differing industrial sectors is very
important, but it would be nice to see more
detailed review practices of implementing
reagents based on the indexes with specific costs.
And not only in project cases.