



Scientific Program  
**XVI-th International Youth Scientific and Environmental Forum of Baltic Region Countries  
«ECOBALTICA».**

**Russian Center of Russian Science and Culture, Gdansk, Poland**

07 October - 09 October 2019

06.10.2019

Arrival of participants

20.00 Meeting of International Science Club  
“Forum ECOBALTICA”

*Prof. A. Borodinecs (Latvia)*

*Optimal properties of external building envelope for minimization of over heating( for member of club)*

07.09.2019

09.00-15.00 – arrival of participants

No	Time	Name of speaker	Name of report
	15.00 – 15.20	<i>Participants Registration (Długa 35, Gdańsk, Polska)</i>	
15.20-15.40	<i>Opening Ceremony ( Moderator the Chair of the Program Committee, Prof. Vasily Rud’)</i>		

No	Time	Name of speaker	Name of report
<p style="text-align: center;"><i>Speakers:</i>  <b>Major of Gdansk City</b>  <b>Andrey Potemkin ( Director of Russian Centre of Sciences and Culture, Gdansk, Poland)</b></p> <p style="text-align: center;"><b>William Hogland (Professor, International Director Forum ECOBALTICA, Sweden)</b></p> <p style="text-align: center;"><b>Professor, Academician of RAS Vladimir Kosolapov ,</b></p> <p style="text-align: center;"><b>Vladimir Chetiy ( Professor,</b>  <b>The Chair of the Global Alumni Alliance Russian –University, Russia)</b></p> <p style="text-align: center;"><b>Frantisek Switala (Professor, The Chair of the Polish Alumni Association</b>  <b>of St.-Petersburg University, Poland)</b></p>			
<p style="text-align: center;"><b>15.40- 17.50</b></p>	<p style="text-align: center;"><b>Plenary Section ( Moderator - Professor,</b>  <b>Academician of RAS Vladimir Kosolapov ,</b>  <b>Russia and Dr. Alexey Cheremisin (Russia)</b></p>		
<p style="text-align: center;"><b>15.40- 16.10</b></p>	<p style="text-align: center;"><b>Professor William Hogland (International Director Forum</b>  <b>ECOBALTICA, Sweden)</b>  <b>Sorting of Wastewater for Urban and Rural Use</b></p>		
<p style="text-align: center;"><b>16.10- 16.40</b></p>	<p style="text-align: center;"><b>Professor, Correspondence member of RAS Alexander Korshunov ( Russia)</b>  <b>Management methods of nitrate content in</b>  <b>potato applicable to the soil-climate conditions of Russia</b></p>		
<p style="text-align: center;"><b>16.40- 17.10</b></p>	<p style="text-align: center;"><b>Professor Gintaras Denafas (Kaunas university of technology, Lithuania)( wi-fi)</b>  <b>Investigation of Chemical Leaching of Metals from Landfills Fine Fraction</b></p>		
<p style="text-align: center;"><b>17.10- 17.20</b></p>	<p style="text-align: center;"><b>A Klasa (Sudent, Gdansk, Poland)</b>  <b>Is food production possible in the stratosphere?</b></p>		
<p style="text-align: center;"><b>17.20- 17.50</b></p>	<p style="text-align: center;">Tatjana Paulauskiene, Olga Anne, Lilita Abele, <b><u>Rasa Viederyte</u></b>  <b>Alternative solutions for marine fuel's composition towards Marine Strategy Di-</b>  <b>rective performance</b></p>		
<p style="text-align: center;"><b>17.50- 18.10</b></p>	<p style="text-align: center;"><i>Break and Poster section</i></p>		

No	Time	Name of speaker	Name of report
18.10-19.00		<p>Hall 1. Section 2.  <b>Ecology of agricultural areas (Moderator Doctor</b>  <b><i>Alexey Cheremisin (Russia)</i></b>  <b><i>Professor Petr Shulz (Poland)</i></b></p> <p><b>A.B. Marchenko</b>  <b>FLORISTIC AND PHYTOPATHOLOGICAL ANALYSIS OF FLOWER-AMENTAL PLANTS OF PHYTOCENOSIS OF CULTURES FOR THE LANDSCAPING OF THE UKRAINE FOR-EST-STEPPE ZONE URBO-ECOSYSTEM</b></p> <p><b>Piotr Szulc</b>  <b>The role of agrotechnical factors in shaping residual minerals in the agroecosystem</b></p> <p><b>V.V. Vasileva</b>  Ensuring environmental safety in the framework of the "Road safety Strategy in the Russian Federation"</p>	
18.10-19.00-		<p>Hall 2. Section 1. Water treatment:  - Effective Low Cost- methods of wastewater treatment  ( Moderator – <b>Dr. Jakub Drewnowski ( Poland)</b></p> <p><b>B. Szeląg, J. Drewnowski</b>  <b>Application of the logistic regression model to simulate the impact of physico – geographical characteristics of the catchment and rainfall on stormwater flood: case study</b>  M. Kozar, Korenchuk M., Sablii L.  <b>Using lemna minor for removal biogenic elements from waste water</b></p>	
08.10.2019			
10.30-12.30		Plenary Section ( Moderator <b>Professor William Hogland (Sweden)</b> <b>Dr. Alexey Cheremisin (Russia)</b>	
10.30-11.00		<b>Professor William Hogland (Sweden)</b> <b>From Glasdump to Phytoremediation Park</b>	
11.00-11.30		<b>Professor Vasily Rud' (Russia)</b> <b>Some issues of plant protection and investigation of plant growth potential</b>	
11.30-12.00		<b>Professor Vladimir Chetiy (Russia)</b> <b>Global Alumni Alliance Russian University: bring together research and education</b>	
11.30-11.50		<b>Paula Eihe, Lasma Lucija Vebere, Inga Grinfelde, Jovita Pilecka, Varvara Sachpazidou and Linda Grinberga</b> The effect of acidification of pig slurry digestate applied on winter rapeseed on the ammonia emission reduction	

No	Time	Name of speaker	Name of report
12.00-13.00		<i>Break and Poster Section</i>	
13.00-14.00		<b>Hall 1. Section 2.</b> <b>Ecology of agricultural areas (Moderator Doctor</b> <u><i>Alexey Cheremisin (Russia)</i></u> <u><i>Professor Petr Shulz (Poland)</i></u> <b>M.A. Galkina</b> Solidago canadensis impacts on the tillable land withdrawn from the farming turnover <b>Khvatov A.V., Sakharov P.A., Lomakin S.M., Lukanina Yu.K.</b> Products of liquid catalytic synthesis from waste plant raw materials <b>B.B. Kartabaeva, A.P. Glinushkin, I.A. Zerkalov, V.A. Polityko, S.N. Mikhaleva</b> The pathogenic complex of strawberry cultivars and their identification <b>Alexey V. Cheremisin</b> Application of new architectural and planning solutions to create an ecological city (on the example of Shanghai, China)	
14.00-14.40		Hall 1. Section 4. Energy (Moderator <b>Dr. Lilita Abele (Latvia)</b>  <i>Paula Eihe, Lasma Lucija Vebere, Inga Grinfeldē, Jovita Pilecka, Varvara Sachpazidou and Linda Grinberga</i> <b>The effect of acidification of pig slurry digestate applied on winter rapeseed on the ammonia emission reduction</b>  <b>Varvara Sachpazidou, Lasma Lucija Vebere, Paula Eihe, Gabriella Eliasson, Linda Grinberga &amp; Dace Butenaite</b> <b>The exploration of seaweed biomass as a fuel for energy production</b>	
14.40-15.40		Hall 1. Round table: <b>The main trends in the development of mutual environmental energy cooperation in the Baltic region in the framework of world scientific cooperation and education</b> <b>Key experts:</b> <i>William Hogland (Professor, International Director Forum ECOBALTICA, Sweden)</i> <i>Vladimir Chetiy ( Professor, The Chair of the Global Alumni Alliance Russian –University, Russia)</i> <i>Alexey Glinushkin ( Professor of RAS, Director FSBSI ARRIP, Russia)</i> <i>Frantisek Switala (Professor, The Chair of the Polish Alumni Association of St.-Petersburg University, Poland)</i>	
15.40-16.30		<b>Closing Ceremony. Moderator-</b> <i>Professor Vasily Rud', Russia</i> <i>Professor, The Chair of the Polish Alumni Association of St.-Petersburg Universities Frantisek Switala (Poland)</i> <b>Awarding the best presentations of the oral sections ,the poster and video section with valuable prizes</b>	
16.30-		- departure	

## POSTER AND VIDEO PRESENTATIONS

1.	Maxim I. Natorkhin, Alexander V. Bobyl, Alexey V. Cheremisin, Alexander N. Chusov, Olga A. Zueva, Alexey V. Dolgopolov, Bayan Pan, Nikita I. Popovskiy	Polymetal raw processing method based on advanced approach to get new nanomaterials
2.	A.P. Glinushkin, A.V. Ovsyankina, B.B. Kartabaeva, A.V. Semigonov, D.A. Korniyukov, S. V. Garnov	Diagnosis of soil fungi that cause root rot
3.	Inga Uvarova, Dzintra Atstaja, Lilita Abele, Miks Erdmanis	Solutions and perspectives of circular business models in the tyre recycling – the case of Latvia
4.	Paula Eihe, Lasma Lucija Veberē, Inga Grinfelde, Jovita Pilecka, Varvara Sachpazidou and Linda Grinberga	The effect of acidification of pig slurry digestate applied on winter rapeseed on the ammonia emission reduction
5.	E.M. Gryznova, V.V. Davydov, V.Yu. Rud	Environmental efficiency of energy production from various sources of raw materials
6.	Žaimis U., Jūrmalietis R.	Microcontroller based adaptive system for solar collector parameters management
7.	Tatjana Paulauskiene, Olga Anne, Lilita Abele, Rasa Viederyte	Alternative solutions for marine fuel's composition towards Marine Strategy Directive performance
8.	Franciszek Świtała	Wykorzystanie płynących wód do produkcji energii odnawialnej Flowing waters utilization for renewable energy generation
9.	L M Molodkina, D V Tryastsina	Spectrophotometry and spectrofluorimetry to analyze the destruction of pharmaceuticals during wastewater treatment by enhanced oxidation
10.	M.Ju. Andrianova, E.A. Bondarenko, S-P. Reinikainen	Study of urban river water parameters using PCA
11.	N.V. Belyakov	Environmental educational project as a way of forming a healthy food culture: experience of the Tomsk region
12.	V. Mukhin, Yu. Spiridonov, N. Korolev	DETOXIFICATION OF PESTICIDES POLLUTED SOIL BY ADSORPTION ON ACTIVATED CARBONS
13.	V. N. Kolupaeva, A. A. Kokoreva, Bondareva T.A., Nuhina I.V.	THE STUDY OF METRIBUZIN MIGRATION IN LYSIMETERS
14.	V.A. Strel'tsova, I.U. Podkovyrov, A.I. Sevrugina, A.P. Glinushkin, N.I. Budynkov, S.S. Kharitonov	Defeat Fusarium fungi underground and aboveground system of wheat in the conditions of gray-forest and dark chestnut soils
15.	R.Z. Allaguvatova, Yu.B. Myasina, L.A. Gaysina	A simple method for the cultivation of algae <i>Chlorella vulgaris</i> (Bejerinck)

16.	V.B. Fadeenko, I.V. Fadeenko, V.S. Reznik, V.A. Kruglov, N.I. Popovskiy, V.V. Davydov and V.Yu. Rud'	Remote environmental monitoring in the area of a nuclear power plant using a radar station
17.	M.I. Nikitina, V.V. Davydov, N.M. Grebenikova, V.Yu. Rud, V.I. Dudkin and Yu.V. Batov	Methodology for assessing the adverse effects of the use of nuclear energy on agricultural land
18.	F.B. Bayramov, V.V. Toporov, O.B. Chakchir, B.H. Bairamov and Yu.V. Rud	Raman spectroscopy and microstructural characterization of anti-diabetic drug metformin hydrochloride
19.	Larisa Startseva, Victor Startsev	Methods of pre-sowing treatment of cabbage seeds
20.	Ludvila Apasheva, Sergej Belov, Yuriy Danyleiko, Aleksej Egorov, Alexandr Korshunov, Dmitry Demin, Vladimir Sidorov, Leonid Shilin	Activation of aqueous solutions by high-frequency glow discharge plasma in water vapor to stimulate growth and control diseases of agricultural plants
21.	Mukhsindjan Ashurov, Sergej Belov, Yuriy Danyleiko, Aleksej Egorov, Nodirbek Otamirzaev, Alexandr Korshunov, Dmitry Demin, Vladimir Sidorov, Leonid Shilin	Method of preparation and biological activity of aqueous hydrogen peroxide solution
22.	M.E. Astashev, O.O. Beloshapkina, A.V. Kvitko, V.E. Ivanov, V.G. Kondratko, R.A. Zakharyan	Development of software for plant leaf area estimation
23.	S.N. Chirikov, A.V. Shkirin, A.S. Konnova, I.V. Savchenko, N.F. Bunkin	Assessment of the possibility of identifying aqueous suspensions of protein-containing particles by the light scattering matrix
24.	S.V. Gudkov, P.A. Glazkova, D.V. Mosal'skaia, I.A. Raznitsyna, D.A. Kulikov, A.A. Glazkov, K.O. Ayyyzhy, E.V. Barmina, I.I. Rakov, A.V. Simakin and G.A. Shafeev	Production and application of selenium nanoparticles to prevent ionizing radiation-induced oxidative stress
25.	M.S. Gurevich, D.P. Tsarapkina, G.A. Pavlenkoa, V.G. Lomanovb, V.A. Sotskovb, D.A. Frolova, V.A. Kvitkoc	Method of eliminating the effect of a free gas on the measurement of water cut three-phase oil-water emulsion by the flow microwave water-cut meter
26.	V.E. Ivanov, E.E. Karmanova, A.V. Chernikov, A.M. Usacheva and V.I. Bruskov	Generation of hydrogen peroxide in protein solutions under the influence of thermal and optical electromagnetic radiation
27.	S.N. Kotelnikov, E.V. Stepanov and G.Y. Ratushnyk	Tropospheric ozone as a risk factor for crop production in central regions of Russia
28.	Martyn Nunuparov, Pavel Khotemlyansky, Vitaly Panchishin, Anatole Kislov	Wireless system for remote monitoring of temperature and humidity in the grain storage and grain dryer
29.	G.A. Shafeev, K.O. Ayyyzhy, E.V. Barmina, I.I. Rakov, A.V. Simakin, A.V. Ovsyankina, D.V. Demin, M.E.	Soil fertilizer based on selenium nanoparticles

	Astashev, V.A. Vodeneev, H.T. Nguyen, N. Pimpha and S.V. Gudkov	
30.	A.V. Simakin, I.V. Baimler, O.V. Uvarov and S.V. Gudkov	Obtaining of nanoparticles of Sc, Ti, V, Cr, Mn, Fe, Co, Ni with controlled sizes and properties using laser ablation
31.	E. Yu. Toropova, A.P. Glinushkin, A.E. Kudrjajtcev, M.K. Insebaeva	The conidia <i>Bipolaris sorokiniana</i> Sacc. Shoem. distribution in the soil of Altai and Kazakhstan arid regions
32.	M.A. Kuznetsova, O.I. Iakusheva, A.N. Rogozhin, N.V. Statsyuk, V.N. Demidova, K.V. Borovsky	In silico use of the Agrodozor decision support system to minimize the use of fungicides for the management of potato late blight in the Baltic region
33.	Yu. D. Smirnov, M.V. Suchkova	Use of sewage sludge ash for reclamation and urban landscaping
34.	O. M. Shkvirko, I. S. Tymchuk, M. S. Malovanyy	Substrate creation from sewage sludge for biological reclamation of land