

ISSN 2310-5577

# European Science Review

2018  
9-10



# **European science review**

**Nº 9–10 2018**  
**September–October**

**Volume 1**

# European Sciences review

Scientific journal

№ 9–10 2018 (September–October) Volume 1

ISSN 2310-5577

## Editor-in-chief

Lucas Koenig, Austria, Doctor of Economics

## International editorial board

Abdulkasimov Ali, Uzbekistan, Doctor of Geography  
Adieva Aynura Abduzhalolovna, Kyrgyzstan, Doctor of Economics  
Arabaev Cholponkul Isaevich, Kyrgyzstan, Doctor of Law  
Zagir V. Atayev, Russia, Ph.D. of Geographical Sciences  
Akhmedova Raziya Abdullayevna, Russia, Doctor of Philology  
Balabiev Kairat Rahimovich, Kazakhstan, Doctor of Law  
Barlybaeva Saule Hatiyatovna, Kazakhstan, Doctor of History  
Bejanidze Irina Zurabovna, Georgia, Doctor of Chemistry  
Bestugin Alexander Roaldovich, Russia, Doctor of Engineering Sciences  
Boselin S.R. Prabhu, India, Doctor of Engineering Sciences  
Bondarenko Natalia Grigorievna, Russia, Doctor of Philosophy  
Bogolub Tatiana Maksimovna, Ukraine, Doctor of Economics  
Bulatbaeva Ayyul Abdimazhitovna, Kazakhstan, Doctor of Education  
Chiladze George Bidzinovich, Georgia, Doctor of Economics, Doctor of Law  
Dalibor M. Elezović, Serbia, Doctor of History  
Gurov Valeriy Nikolaevich, Russia, Doctor of Education  
Hajiyev Mahammad Shahbaz oglu, Azerbaijan, Doctor of Philosophy  
Ibragimova Liliya Ahmatyanovna, Russia, Doctor of Education  
Blahun Ivan Semenovich, Ukraine, Doctor of Economics  
Ivannikov Ivan Andreevich, Russia, Doctor of Law  
Jansarayeva Rima, Kazakhstan, Doctor of Law  
Khubaev Georgy Nikolaevich, Russia, Doctor of Economics  
Khurtsidze Tamila Shalvovna, Georgia, Doctor of Law  
Khoutyz Zaur, Russia, Doctor of Economics  
Khoutyz Irina, Russia, Doctor of Philology  
Korz Marina Vladimirovna, Russia, Doctor of Economics

Kocherbaeva Aynura Anatolevna, Kyrgyzstan, Doctor of Economics  
Kushaliyev Kaisar Zhalitovich, Kazakhstan, Doctor of Veterinary Medicine  
Lekerova Gulsim, Kazakhstan, Doctor of Psychology  
Melnichuk Marina Vladimirovna, Russia, Doctor of Economics  
Meymanov Bakyt Kattoevich, Kyrgyzstan, Doctor of Economics  
Moldabek Kulakhmet, Kazakhstan, Doctor of Education  
Morozova Natalay Ivanovna, Russia, Doctor of Economics  
Moskvin Victor Anatolevich, Russia, Doctor of Psychology  
Nagiyev Polad Yusif, Azerbaijan, Ph.D. of Agricultural Sciences  
Naletova Natalia Yurevna, Russia, Doctor of Education  
Novikov Alexei, Russia, Doctor of Education  
Salaev Sanatbek Komiljanovich, Uzbekistan, Doctor of Economics  
Shadiev Rizamat Davranovich, Uzbekistan, Doctor of Education  
Shhabutova Zarema Zorievna, Russia, Ph.D. of Education  
Soltanova Nazilya Bagir, Azerbaijan, Doctor of Philosophy (Ph.D. of History)  
Spasennikov Boris Aristarkhovich, Russia, Doctor of Law  
Spasennikov Boris Aristarkhovich, Russia, Doctor of Medicine  
Suleymanov Suleyman Fayzullaevich, Uzbekistan, Ph.D. of Medicine  
Suleymanova Rima, Russia, Doctor of History  
Tashpulatov Salih Shukurovich, Uzbekistan, Doctor of Engineering Sciences  
Tereschenko-Kaidan Liliya Vladimirovna, Ukraine, Doctor of Philosophy  
Tersvadze Mzia Giglaevna, Georgia, Doctor of Philology  
Vijaykumar Muley, India, Doctor of Biological Sciences  
Yurova Kseniya Igorevna, Russia, Ph.D. of History  
Zhaplova Tatiana Mikhailovna, Russia, Doctor of Philology  
Zhdanovich Alexey Igorevich, Ukraine, Doctor of Medicine

## Proofreading

Kristin Theissen

## Cover design

Andreas Vogel

## Additional design

Stephan Friedman

## Editorial office

Premier Publishing s.r.o. Praha 8 – Karlín, Lyčkovo nám. 508/7, PSC 18600

## E-mail:

pub@ppublishing.org

## Homepage

ppublishing.org

**European Journal of Arts** is an international, German/English/Russian language, peer-reviewed journal. It is published bimonthly with circulation of 1000 copies.

The decisive criterion for accepting a manuscript for publication is scientific quality. All research articles published in this journal have undergone a rigorous peer review. Based on initial screening by the editors, each paper is anonymized and reviewed by at least two anonymous referees. Recommending the articles for publishing, the reviewers confirm that in their opinion the submitted article contains important or new scientific results.

Premier Publishing s.r.o. is not responsible for the stylistic content of the article. The responsibility for the stylistic content lies on an author of an article.

## Instructions for authors

Full instructions for manuscript preparation and submission can be found through the Premier Publishing s.r.o. home page at:

<http://www.ppublishing.org>.

## Material disclaimer

The opinions expressed in the conference proceedings do not necessarily reflect those of the Premier Publishing s.r.o., the editor, the editorial board, or the organization to which the authors are affiliated.

Premier Publishing s.r.o. is not responsible for the stylistic content of the article. The responsibility for the stylistic content lies on an author of an article.

## Included to the open access repositories:



The journal has the GIF impact factor 1.26 for 2017.

## © Premier Publishing s.r.o.

All rights reserved; no part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without prior written permission of the Publisher.

Typeset in Berling by Ziegler Buchdruckerei, Linz, Austria.

Printed by Premier Publishing s.r.o., Vienna, Austria on acid-free paper.

*Olimov Hamid Haydarovich,  
senior teacher, Bukhara branch of the Tashkent Institute  
of Irrigation and Agricultural Mechanization Engineers,  
the Republic of Uzbekistan  
E-mail: holimov@mail.ru*

*Murodov Nusrat Murtazoyevich,  
doctor of technical sciences, professor,  
Bukhara branch of the Tashkent Institute  
of Irrigation and Agricultural Mechanization Engineers,  
the Republic of Uzbekistan  
E-mail: nmurodov@mail.ru*

*Murtazoyev Azizbek Nusratovich,  
senior teacher, Bukhara State University,  
the Republic of Uzbekistan*

*Abdullayeva Nabiya Idrisovna,  
senior teacher, Bukhara branch of the Tashkent Institute  
of Irrigation and Agricultural Mechanization Engineers,  
the Republic of Uzbekistan*

## STUDYING THE TECHNOLOGIC PROCESS OF THE OPERATING ELEMENT FOR ASSEMBLY OF PAWLS FORMATION

**Abstract:** The article presents the results and method of study the process of formation of longitudinal ridges in the rows of cotton. A schematic diagram on installation of the formation of longitudinal ridges in cotton rows pacings is developed.

**Keywords:** Pawl, coil conveyor, slope angle of soil, number of coil conveyor rotation, soil volume.

### Introduction

Decree of the President of the Republic of Uzbekistan #PF-4947 dated 7<sup>th</sup> February 2017 "Actions strategies on further development of the Republic of Uzbekistan" and Resolution of the President of the Republic of Uzbekistan #PK-3459 dated 4<sup>th</sup> January 2018 "Supplementary measures to increase agricultural equipment" [1; 2] shows its valuable importance in mechanization of this sphere.

Lessening energy and resources in economy, the use of energy saving technologies for production, wide use of being restored energy sources, increasing labor productivity in economy sphere are set up in the 3<sup>rd</sup> chapter 3.2 part, 7 item in the Strategy of Actions of development the Republic of Uzbekistan in the period of 2017–2021 years, and 3 chapter 3.3 part is indicated works which are being performed in the sphere of agriculture "Modernization the agriculture and develop it intensively" [1].

Nowadays the most part of cotton growing appropriates to irrigated farming. Nevertheless cotton growing in irrigating agriculture demands more labor forces, it is considered preferable for high yields productivity. Because of crops' area ralf and uneven fields related with the cotton irrigating pro-

cess will be implemented better by means of dividing pawls on the small fields. In this process along and across cotton pawls should be implemented before irrigating and use it till the end of crops period. Taking into consideration and making it quantities with all agricultural means is considered the actual problematic issue. Nowadays this process is being carried out by means of manual work at certain farmers. Manually made capsizer creating surface pawls is also being used. This device does not give an opportunity to use widely because of creating across pawl between cotton raw doing aggregate in twice, the height of hurting cotton young growth. As solution of such kind of problems the scientists are doing research work according to create. This by technical means to form two longitudinal aggregating get done among a number of cotton past the threshold, at the same time to injure the cause of the high level of the germination of cotton-wide, there is no allow you to apply. The solution of this problem by scientists as among a number of active cotton Bukhara branch of the Tashkent Institute of Engineers for Mechanization and Agriculture to form a longitudinal threshold screw work conducts scientific research in the



the removable device in the laboratory experiment the results from the soil's volume 8 will be evaluated through.

To change the angle of inclination relative to the movement of the laboratory device from 0 to 75 degrees on the reverse side of the support, a threaded connection 6 is installed.

The main working element of the device at this angle the soil laboratory work screw carrier body 4, the rotary movement of the wheelchair's forward stationary be tried along with her 2 two-storey chain of 7 to 10 through the gear 9 to come to action from the reducer device in the shape of star cone, committing three gear rotary motion out of it that shaft making in diameter from 11 to 13 by straps 12 divided parts pulley of the screw is transmitted. Pulley that purpose through the change of level of the soil's rotation due to the rotary motion, which removes screw through this change and to determine the optimal number of parameters is designed to achieve. Laboratory model of creating along pawl between cotton rows' assembly is prepared according to working organ size 1/3 and fixed to soil channel cart through special device creating along pawl in soil channel laboratory assembly, gives an opportunity to practice several speed movement in operation modes (Fig.2).



Figure 2. Side view of laboratory assembly which creates along pawl between cotton rows

### Requirement of soil and experimenting.

Making laboratory experiments with hard soil, its wetness and granules are the same condition as fields.

Soil's layer wetness 0–15 cm keep the same with hardness of it 10.3–12.1% and 0.16–0.33 MP.

In laboratory assembly is aimed to determine descent corner according to movement direction of coil conveyor working organ, number of coil conveyor step and rotatory number, speed movement and coil conveyor diameter, effect of raising coil conveyor to energetic and agro machine indications, this is assessed by productivity of work.

All indicators are intended to implement in accordance with UzRH.63.07: 2001 and Tst.63.03:2001 "Experiment of agricultural machine. Methods of economic effectiveness of experimental machine." Programs and methods of experiments RD10.5.1–91 [3, 4].

Experiments make an opportunity fixing  $\alpha=25^\circ, 35^\circ, 45^\circ, 55^\circ$  and  $65^\circ$  descentat corner according to horizon and speed movement of coil conveyor rotatory movement number  $v=30; 42$  and  $55$  RPM.

Version of coil conveyor diameter  $d_{sh} = 80; 90$  and  $100$  mm, raising corner  $\gamma = 70^\circ, 80^\circ, 90^\circ$  and its step  $q_{sh} = 25, 35$  and  $45$  mm are prepared on the base of theoretic research results.

5 repeated measuring process will be implemented on the base of these parameters the results are taken from 3 point of soil channel and determined average mathematical value in experiments.

Laboratory assembly gives an opportunity to move in  $V=0.5, 0.75, 1.2$  m/s working organ of soil channel direction. These speeds coincide with II and III step of aggregate.

Special reducer device elector motor fixed in laboratory assembly and it provides rotator number (750, 1000 and 1500 RPM.) and model 4A U128 works to move cart which is in soil channel.

Coil conveyor diameter, steps and raising corner parameters are determined by making 3 version experimental models coincide with laboratory device which is created pawl between cotton rows coincide with its value. So taken results from laboratory coincides with field and land areas.

### Conclusion

Using this style will help to do hard and difficult experiments and take the results fast and suitable.

Through taken the use of this style one can easily get the best and fast result during experiments getting results are worked mathematically get the same size and it gives an opportunity to prepare working examples without mistake. So it will bring lessening working expenditure. It will also enable to compare results which are taken from assembly in field and laboratory and through that research work will be assessed.

**References:**

1. The President Decree of the Republic of Uzbekistan № PF-4947 7<sup>th</sup> February, 2017. "Attempt strategies to developed more the Republic of Uzbekistan".
2. The President Resolution of the Republic of Uzbekistan "Planninig to place crops wisely and forcast size of growing agricultural products in 2018" According to № PP-3281 on September 15, 2017 in order to improve quality and degree mechanization services in agricultural goods producers, to spend quality and in time spring agro machine works, the resolution number PP-3459 dated 4<sup>th</sup> of January 2018, "Supplementary measures to increase agricultural equipment" was adopted.
3. UzRH.63.07:2001 and Tst.63.03:2001 "Experiment of agro cultural machine. Methods of economic effectiveness of experimental machine." Programs and methods of experiments.– Tashkent, 2001.– 95 p.
4. RD Uz.63.03: 98 "Experiment of agro cultural machine. Methods of economic effectiveness of experimental machine." Programs and methods of experiments.-RD. 10.5.1.-91. Official publisher.– Tashkent, 1998.– 87 p.

<i>Olimov Shoirbek Abduqaxxorovich, Kasimahunova Anarxan Mamasadikovna, Mamadaliyeva Lola Kamildjanovna, Nurdinova Roziyaxon, Zokirov Sanjar Ikromjon og'li, Norbutaev Maqsud Abdurasulovich</i>	
DEVELOPMENT AND RESEARCH OF HETEROSTRUCTURES WITH AN INTERNAL THIN LAYER BASED ON P-TYPE SILICON .....	183
<i>Maksudov Erkin Tukhtayevich, Sulaymonov Rustam Shennikovich, Umarchodjayev Davron Hakimovich</i>	
DEVELOPMENT OF EFFECTIVE TECHNOLOGY OF FIBER CLEANING .....	186
<i>Mardonov Bakhtiyor Teshayevich</i>	
CONTROLLING THE ACCURACY OF PROCESSING THE INVOLUTE PROFILE OF THE HEIGHT OF THE GEAR TOOTH WHEELS.....	189
<i>Mukhamedbaev Abdugafur Abduvaliyevich</i>	
SLAG-ALKALINE FOAM CONCRETE BASED ON GRANULATED ELECTROTHERMOPHOSPHOR SLAG .....	192
<i>Najimova Aysulu Makhmudovna, Alibekova Tolkin Sharshenovna, Turmanova Gulnaz Makhmutovna, Sarsenbaev Dauletbay Bakhtibaevich</i>	
ENERGY RESOURCE- SAVING IN A THERMAL POWER PLANT AUXILIARY .....	196
<i>Nishanov Akhram Hasanovich, Samandarov Batirbek Satimovich</i>	
FORMATION OF QUANTITATIVE SIGNS WHEN CONSTRUCTING THE ALGORITHMS FOR CLASSIFICATION OF ELECTRONIC EDUCATIONAL RESOURCES .....	199
<i>Olimov Hamid Haydarovich, Murodov Nusrat Murtazoyevich, Murtazoyev Azizbek Nusratovich, Abdullayeva Nabiya Idrisovna</i>	
STUDYING THE TECHNOLOGIC PROCESS OF THE OPERATING ELEMENT FOR ASSEMBLY OF PAWLS FORMATION .....	201
<i>Iskandarov Mastura Iskandarovna, Orazimbetova Gulistan Jaksilikovna, Mironyuk Nina Anatolievna, Kurbanova Aypara Djoldasovna</i>	
INVESTIGATION OF REACTIVITY AND SYNTHESIS OF CLINKERS FROM RAW MATERIALS WITH THE USE OF BASALT ROCKS .....	205
<i>Rakhmonov Ikromdzon Usmonovich, Niyozov Numon Nizomiddinovich</i>	
ANALYSIS OF EXISTING METHODS OF ELECTRIC CONSUMPTION .....	209
<i>Starykh Daria, Ivanova Anastasiya, Cherkaeva Margarita</i>	
THE PROBLEM OF REMOVAL OF DEPOSITS FROM HEAT EXCHANGE SURFACES AND THEIR GRINDING .....	212
<i>Taslimov Abdurahim Dehkanovich, Melikuzeyev Mikromil Vohijon ugli, Rakhimov Farrux Movliddinovich</i>	
METHODOLOGY IN MULTICRITERIA PROBLEMS OPTIMIZATION AND UNIFICATION OF PARAMETERS OF POWER SUPPLY SYSTEMS .....	214
<i>Khakimov Farrukh, Tulkin Radjabo, Maksumova Oytura</i>	
EVALUATION OF DIFFERENT VISCOSITY INDEX IMPROVERS IN LOCAL LUBE OIL BASE STOCK BY MEANS OF SONIC OSCILLATOR .....	217
<i>Khalikov Abdulkhak Abdulkhairovich, Urakov Olimjon Hikmatullaevich</i>	
THE TASKS OF ORGANIZING AND MANAGING THE INTEGRATED DIGITAL NETWORK OF OPERATIONAL AND TECHNOLOGICAL COMMUNICATION BASED ON PIC-D DEVICES AT THE ANGREN-PAP RAILWAY SECTIONS.....	220