



Approved by
Vice-rector for Research and
International Cooperation

_____ A. Kulsarieva

« ____ » _____ 2018 y

**ANNUAL REPORT
OF SCIENTIFIC RESEARCH WORK**

Chair of Chemistry

(full name of the chair, research institute, center)

for 2018 year

Director of Institute
d.g.s., professor

signature

K.D. Kaimuldinova
full name

Head of the Chair
c.h.s., associate professor

signature

Z.S. Mukataeva
full name

Head of department of research projects
and normcontroll

signature

G.R. Kirillova
full name

Almaty, 2018.

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Applications

Laminated copies of patents, pre-patents, copyright certificates

Reprints of articles published in journals with impact factor in the reporting year

Screenshot from the site database of quoting articles published in journals with impact factor

1 copy of monographs published in the reporting year

Copies of the title page and the last page of monographs, textbooks, manuals

Copies of certificates, diplomas and other award documents received by students and undergraduates

Copies of contracts with foreign universities

Conclusion

First part

Analytical description of the annual report

Assessment of the solvable problems of the research work of the department. Research work at the Department of Chemistry is directed to the study of the methodological problems of studying chemistry in high school and pedagogical universities; environmental problems on the territory of Kazakhstan and their solutions; synthesis and research of new polymeric materials.

The main directions of the research work of the chair:

Methodical problems of studying chemistry in high school and pedagogical universities; Environmental problems in Kazakhstan and their solutions; Synthesis and research of new polymeric materials, Development of modified inorganic and polymeric sorbents and their use in hydrometallurgy, Development of new bitumen emulsions and asphalt concrete, Oil sorbents and their use in oil spills.

The scientific directions of the department correspond to the scientific directions: (pedagogy and psychology, education, natural sciences, national education, history of the independent state of the Republic of Kazakhstan) of the university.

Relevance, novelty of research, unrepeatability of scientific topics.

The research direction "Methodical problems of studying chemistry in secondary schools and pedagogical universities" examines the problems of the theory and methodology of teaching chemistry in schools and universities;

"Environmental problems on the territory of Kazakhstan and ways to solve them" consider the issues of assessment and forecasting of atmospheric pollution by industrial emissions using the method of mathematical modeling; development of composite materials with desired properties.

The research direction "Synthesis and research of new polymeric materials" addresses issues related to the creation and study of water-soluble and bioactive polymeric materials, as well as the problem of processing oil waste and restoring man-made territories.

Research area "Development of modified composite materials using petroleum-bituminous rocks, production wastes and the study of their properties." Various methods are used to isolate heavy oil from Kazakhstan's petite-bituminous rocks and the physicochemical properties of the composites obtained are investigated.

Carrying out events for the image policy of the university. The Department of Chemistry has developed the website of the Department of Chemistry at the Institute of Natural Science and Geography.

As well as an educational portal is being developed, designed to post the results of the research carried out, electronic training tools developed for mass consideration.

Employees of the Department of Chemistry participate in research projects funded by the MES of the Republic of Kazakhstan, such as: d.p.s. Akhmetov N.K. on the topic "The use of information and computer technology in teaching chemistry through game training" (22,600,000 tenge), head teacher Chinibayeva N.S. on the topic "Scientific and technical substantiation of innovations of the chemical cluster in the field of creation of new materials and technologies for increasing the efficiency and environmental sustainability of industrial production" with the K.I Satpayev KazNTU (368665976 tenge), c.ch.s Mukatayeva ZS, Sergazina M. for research projects and start-up projects of young researchers for a grant from Abai KazNPU (2,000,000 tenge), 1 year doctoral student Sagyntayuly N. won project for rector's grant (2300000 tenge).

Application of equipment of national and engineering laboratories. Undergraduates and doctoral students of the department use the laboratories of the Institute of Chemistry. ABBekturova (6M060600-chemistry undergraduates of the 2nd year of study. S. Ryspaeva, 6D060600-chemistry doctoral students of the 1st year of study Sadykov K.), Institute of Organic Catalysis and Electrochemistry named after D.V Sokolsky (6D060600-Chemistry, PhD student of the 1st year of study Sarsenov R.), Al-Farabi Kazakh National University, Institute of Combustion Problems (6D060600-Chemistry of the PhD student of the 2nd year of training of Sergazin M).

Development of new technologies: N. Akhmetov won a grant for the implementation of gaming teaching methods in the classroom on inorganic and analytical chemistry using information and communication technologies, as well as teaching staff use modular technology, critical thinking technology, the method of reflection in the credit system of training bachelors and masters of the department.

A course of lectures by leading foreign and domestic researchers of external scientific organizations.

October 11, 2018 Department of Chemistry held a scientific and methodological seminar with the participation of c.ch.s Zh.B. Bakenov from the I. Arabaev. Kyrgyz State University/

During the reporting period, the department organized a round table for masters, doctoral students and teachers of the department with an academician of Tomsk Polytechnic University, d.s. Bakibaev A.A. from 12.11. on 15.11. 2018 year.

Employee participation in scientific events of external scientific organizations; Employees, undergraduates and doctoral students of the department regularly participated in scientific events, including international research conferences: XXVIII International Conference on Organometallic Chemistry, Florence Italy), XIV International Research Conference, Czech Republic, Prague; XIII International Scientific and Practical Conference "Trends in Modern Science", United Kingdom, Sheffield; International Scientific and Practical Conference "Promising areas of research in the methodology of teaching biology and ecology", St. Petersburg; Uzbek-Kazakhstan Symposium "Problems of Polymer Science", Tashkent; International scientific conference of young scientists, students and schoolchildren XVIII Satpayev readings "Innovative solutions to traditional problems: engineering and technology"; XXIII International Scientific and Practical Conference "Innovation-2018", Tashkent.

Cooperation with scientific organizations, universities, including the Nazarbayev University. The department works closely with neighboring foreign universities: Herzen Russian State Pedagogical University, Lithuanian University of Education, National Plant Protection Institute, Poland, Belostok, I. Arabaev Kyrgyz State University.

The proportion of women performing research and development of the total number of researchers is 68%.

Equipment with modern equipment in the reporting year. The department has 10 computers and 10 printers, 1 copier, 2 interactive boards, 1-projector, 1-screen, a complex of educational and laboratory "Chemistry" -3, a complex of educational and laboratory "General Chemistry" -2, a complex of educational and laboratory "Ecology" -2.

Оснащение современным оборудованием в отчетном году. Кафедра располагает 10 компьютерами и 10 принтерами, 1 ксероксам, 2 интерактивные доски, 1-проектор, 1-экран, комплекс учебно-лабораторный «Химия»-3, комплекс учебно-лабораторный «Общая химия»-2, комплекс учебно-лабораторный «Экология»-2.

Using the potential of external scientific organizations in the preparation of theses for students, master's and doctoral dissertations.

During the reporting period, the department used the potential of external scientific organizations in the preparation of master's theses and dissertations of students: reviews, review-Kazakh National University. Al-Farabi, Kazakh State Women's Pedagogical University, Almaty Technological University, Kazakh National Technical University. K. Satpayev, Kazakh National Medical University. S. Asfendiyarov, "A.B. Bekturov Institute of chemical science" "D.V. Sokolsky Institute of polymeric technologies".

The implementation of the results of research reports in the work of students, masters and doctoral students. The results of research reports are being introduced into the work of masters and doctoral students(M. Sergazina - 2nd year doctoral student 6D060600-chemistry- Institute of Combustion Problems at Al-Farabi Kazakh National University, S. Ryspaev - 2nd year undergraduate 6M060600- Chemistry - Institute of Chemistry, Sarsenova R. - PhD student of the 1st year of study 6D060600 Chemistry - Institute of Organic Catalysis and Electrochemistry, KazNPU 605-07-18. Annual research report. Second Edition.

Sadykov K. - PhD student of the 1st year of study of 6D060600 chemistry - Institute of Chemistry).
The practice of doctoral students, masters and students in external scientific organizations. Doctoral students and masters of the department research and development, passed production and pedagogical practice under an agreement with external scientific organizations, such as “A.B. Bekturov Institute of chemical science” “D.V. Sokolsky Institute of polymeric technologies”, Al-Farabi Kazakh National University, Institute of Combustion Problems at Al-Farabi Kazakh National University.

Master's students of the 2nd year of study of the specialty 6M011200-Chemistry in Abai Kazakh National Pedagogical University passed the pedagogical practice. Head of Practice –c.ch.s, professor Mansurov B.A.

Participation of doctoral students, undergraduates and students in scientific events of external scientific organizations. The department organized the participation of undergraduates in events held abroad.

Second part

THE TABLES

Table 1

The staff of the chair of chemistry in December 2018

(name of department)

| № | Full name | Position | Date of birth | Degree,rank | Specialty code | Honorary titles | State Prizes, Grants, Awards | Employment rate (100%/75%/05%/25%) | Information about concurrent employment at other departments of Abay KazNP U |
|---|-----------------|-----------|---------------|-------------------|----------------|-----------------|------------------------------|------------------------------------|--|
| 1 | Akhmetov N.K. | professor | 1952 | d.p.s., professor | 13.00.01. | | | 1,0 | - |
| 2 | Shokybaev Zh.A. | professor | 1942 | d.p.s., | 13.00.01. | | Diploma of the | 1,0 | - |

| | | | | | | | | | |
|---|------------------|---------------------|------|-----------------------------|------------------------|--|---|------|---|
| | | | | professor | | | Supreme Council of the Kazakh SSR | | |
| 3 | Bekturov E.A. | академик | 1931 | d.ch.s. | 02.00.04. 02.00.06. | | | 0,25 | - |
| 4 | Seitzhanov A.F | professor | 1942 | c.ch.s, professor | 02.00.15. | | "Excellence in Education of Kazakhstan", "Honored Worker of Education of the Republic of Kazakhstan" | 0:5 | |
| 5 | Turgumbaeva R.H. | assistant professor | 1948 | d.t.s., assistant professor | 25.00.36. | 1. Member of the New York Academy of Sciences. 2. Member of the American Chemical Society | Winner of the international scholarship "Bolashak". | 0:5 | - |
| 6 | Zhaksybaev M.Zh. | assistant professor | 1958 | d.ch.s. | 02.00.15. | | | 1,00 | - |
| 7 | Meirova G.I. | professor | 1953 | d.ch.s. | 02.00.06. | | | 0:5 | - |

| | | | | | | | "The best teacher of the university" | | |
|----|-------------------|---------------------|------|-----------------------------------|-----------|--|--------------------------------------|------|---|
| 8 | Meirmaniva A.A. | assistant professor | 1956 | c.ch.s | 02.00.05 | | | 0,75 | - |
| 9 | Azimbaeva G.T. | assistant professor | 1954 | c.ch.s, professor | 02.00.06. | | | 1,00 | - |
| 10 | Nurakhmetova A.R. | assistant professor | 1967 | c.p.s., assistant professor | 13.00.02. | | | 1,0 | - |
| 11 | Sagimbaeva A.E. | head teacher | 1970 | c.ch.s | 02.00.15. | | | 1,0 | - |
| 12 | Korganbaeva Zh.A. | head teacher | 1979 | c.ch.s | 02.00.06. | | | 0,5 | - |
| 13 | Mukataeva Zh.S. | Head of the Chair | 1974 | c.ch.s, assoc prof | 03.00.16. | | | 1,00 | - |
| 14 | Zhaksybaeva Zh.M. | head teacher | 1972 | c.ch.s | 02.00.03. | | | 1,25 | - |
| 15 | Kasymbekova D. | head teacher | 1976 | c.ch.s | 02.00.06. | | | 1,00 | |
| 16 | Chinibaeva N.S. | head teacher | 1971 | c.ch.s | 02.00.06. | | | 0,5 | - |
| 17 | Kozhagulova Zh.R. | head teacher | 1965 | - | - | | | 1,25 | - |
| 18 | Karazhanova D.R. | teacher | 1971 | - | - | | | 1,25 | - |
| 19 | Bektenov N. | professor | 1954 | d.c.s. | 02.00.06. | | | 1,00 | |
| 20 | Zhusupbekova N.S. | head teacher | 1977 | c.ch.s | | | | 1,00 | |
| 21 | Unerbaeva Z.O. | assistant professor | 1967 | c.p.s | 13.00.02. | | | 1,00 | |
| 22 | Mansurov B.A. | professor | 1951 | c.ch.s | 02.00.15 | | | 1,00 | |
| 23 | Ilyasova G. | teacher | 1971 | master | - | | | 0,5 | |
| 24 | Beknazarova A.B. | teacher | 1988 | master | - | | | 0,25 | |

| | | | | | | | | | |
|----|------------------|---------|------|--------|---|--|--|------|--|
| 25 | Bukharbaeva F.U. | teacher | 1992 | master | - | | | 0,75 | |
|----|------------------|---------|------|--------|---|--|--|------|--|

Table 2

The list of teaching staff, masters and doctoral students who defended their dissertations in 2018

| № | Full name | Position | Degree, title |
|----|------------------------------------|----------|--------------------------------|
| 1 | Bekmurzaeva Saltanat Zheksembekyzy | - | Master of pedagogical Sciences |
| 2 | Bektai Umit | - | Master of pedagogical Sciences |
| 3 | Botabekova Arailym Talgatovna | - | Master of pedagogical Sciences |
| 4 | Burkitbaeva Kamshat Tugelbaevna | - | Master of pedagogical Sciences |
| 5 | Bukharbaeva Farida Umarovna | - | Master of pedagogical Sciences |
| 6 | Dyisenova Tolganai Kanatkyzy | - | Master of pedagogical Sciences |
| 7 | Zhanabergen Aisha-Bibi Muratkyzy | - | Master of pedagogical Sciences |
| 8 | Zholdasbek Balkenzhe Kazybekyzy | - | Master of pedagogical Sciences |
| 9 | Zholzhanov Bagdat Askaruly | - | Master of pedagogical Sciences |
| 10 | Yolzhanov Yersultan Sagybuly | - | Master of pedagogical Sciences |
| 11 | Mirzaq Madina Shaybekkyzy | - | Master of pedagogical Sciences |
| 12 | Sabyrova Ayman Kenzhegalievna | - | Master of pedagogical Sciences |
| 13 | Sagynthayuly Nursultan | - | Master of pedagogical Sciences |
| 14 | Saylaubay Ainur Qutykybekyzy | - | Master of pedagogical Sciences |
| 15 | Syrymbetova Gulzat Parakhatovna | - | Master of pedagogical Sciences |
| 16 | Tursynbek Fariza Baqtiyargyzy | - | Master of pedagogical Sciences |
| 17 | Khakimov Makhirim | - | Master of pedagogical Sciences |
| 18 | Makhumova Madina | - | Master of Chemical Sciences |
| 19 | Kerimul Assel | - | Master of Chemical Sciences |
| 20 | Nymanova Ainur | - | Master of Chemical Sciences |
| 21 | Lesbay Faziza | - | Master of Chemical Sciences |
| 22 | Ilyasova G. | - | Doctor of philosophy |

Table 3

The list of teaching staff who have improved their qualifications in 2018

| № | Full name | Place, type of advanced training |
|---|------------------|--|
| 1 | Mukataeva Zh.S. | <ol style="list-style-type: none"> "Modern methods of research and molecular markers of cells and intracellular processes under normal and pathological conditions" in the amount of 72 hours. From September 12 to October 12, 2018 Seminar "Academic Policy of the Kazakh National Pedagogical University named after Abai", 8-18 January, 2018 within the framework of Winter School "Professionalism and Pedagogical Skills" |
| 2 | Kasymbekova D.A | Kazakh National Pedagogical University after Abay for completing the 3-month (120 hours) English language course on IMPROVEMENT OF PROFESSIONAL ENGLISH COMMUNICATION SKILLS FOR TEACHERS (PRE-INTERMEDIATE LEVEL) from March to May 2018. |
| 3 | Chinibaeva N.S.. | <ol style="list-style-type: none"> Kazakh National Pedagogical University after Abay for completing the 3-month (120 hours) English language course on IMPROVEMENT OF PROFESSIONAL ENGLISH COMMUNICATION SKILLS FOR TEACHERS (PRE-INTERMEDIATE LEVEL) from March to May 2018. Kazakh Polytechnic University. K.I. Satpayev "Advanced training of the teaching staff, for enhanced training of teachers, teaching staff of universities, taking into account the experience of basic universities of the State program of industrial and innovative development of the Republic of Kazakhstan and the development of entrepreneurial skills, including online mode in the specialty Chemistry »260 hours. August 31, 2018 |
| 4 | Sagimbaeva A.E. | Kazakh National Pedagogical University named after Abay. November 15-16, 2018 Seminar on "Integration of the updated secondary education content into educational programs in the pedagogical profile" from 6B01-7M01-8D01 in the context of the updated educational content. |
| 5 | Karazhanova D.A. | Workshop "School Leaders' School" within the Winter School "Professionalism and Pedagogical Skills". January 8 to 2018 KazNPU named after Abay |
| 6 | Ilyasova G.U. | Criteria-based assessment of the effectiveness of educational activities of schoolchildren "Center of professional development and distance education" KazNPU named after Abai. November 5-9, 2018, 40 hours. |
| 7 | Unerbaeva Z.O. | <ol style="list-style-type: none"> Kazakh National Pedagogical University named after Abay Features of secondary education programs of updated content 23.02.2018, 40 hours. Kazakh National Pedagogical University after Abay for completing the 3-month (120 hours) English language course on IMPROVEMENT OF PROFESSIONAL ENGLISH COMMUNICATION SKILLS FOR TEACHERS (PRE-INTERMEDIATE LEVEL) from March to May 2018. Kazakh National Pedagogical University named after Abay. "Curriculum for secondary education content" (for faculty members of higher educational institutions of the Republic of Kazakhstan) 2018 January 8-12. 36 hours/ Teaching staff of the Faculty of Engineering and Technology, Department of Professional Teaching and Staffing, Teaching Staff, Teaching Staff, Teaching Staff, Teacher Training Program, State Program on Industrial and |

| | | |
|----|-------------------|--|
| | | Innovative Development of the Republic of Kazakhstan, and specialization on online mode in Chemistry (260 academic chairs). 31st of August 2018 |
| 8 | Zholdasbek B.K | Branch of JSC "National Center for professional development" Orleu ". Upgrading the content of secondary education in the Republic of Kazakhstan is aimed at improving the qualification of teachers in the disciplines "Chemistry" and "Natural Science". 80 hours. May 3, 2018 |
| 9 | Bukharbaeva F.U. | 80 academic hours on the curriculum of teachers' qualification improvement on disciplines "Chemistry" and "Natural Science" in the context of upgrading the content of secondary education in the Republic of Kazakhstan. May 3, 2018 |
| 10 | Zhisipbekova N.S. | 1. KazNPU named after Abai, "Training on the program of the updated content of secondary education", Almaty, 2018, January 8-12, 36 hours. 2. KazNTPU K. Satpayev, "Improving the qualifications of the teaching staff, for the intensive training of teaching staff, the teaching staff of universities, taking into account the experience of basic universities of the State Program on Industrial Innovation Development of the Republic of Kazakhstan and the development of entrepreneurship skills, including online mode in Chemistry (260 academic hours) ", Almaty, 2018, August 31 |
| 11 | Nurakhmetova A.R | Kazakh National Pedagogical University named after Abai. Advanced training course on the educational program of advanced training on the topic "Teaching on the updated content of secondary education programs" in the amount of 40 hours. 2018, from May 24 to June 8 |
| 12 | Nurgazieva E.K. | Kazakh National Pedagogical University named after Abai. Advanced training course on the educational program of advanced training on the topic "Teaching on the updated content of secondary education programs" in the amount of 40 hours. 2018, from May 24 to June 8 |
| 13 | Zhaksybaeva Zh.M. | Workshop "School Leaders' School" within the Winter School "Professionalism and Pedagogical Skills". January 8-9, 2018 KazNPU Abay. |
| 14 | Mansurov B.A. | 1. Jury of republican competition of scientific projects in general subjects. May 15, 2018 2. Moderator of the republican competition "Best author's program". |

Table 4

The list of teaching staff who received patents and copyright certificates in 2018 r.

| No | Full name, Academic title, position | The name of the object of copyright (patent, copyright certificate) | No. of patent / copyright certificate | Date of issue of the patent / copyright certificate |
|----|--|---|---------------------------------------|---|
| 1 | Ergozhin E.E., Bektenov N.A., Sadykov K.A., Ryspayeva S.B., Kalmuratova K.M. | Patent breakthrough model. Get the bitumen material on the base of the tar. | No 2878 | 21.05.2018 |
| 2 | Ergozhin E.E., Bektenov N.A., Sadykov K.A., Ryspayeva S.B., | Patent on a good model. Asphaltic concrete | No 2996 | 28.06.2018 |

| | | | | |
|--|------------------|--|--|--|
| | Kalmuratova K.M. | | | |
|--|------------------|--|--|--|

Table 5

The list of teaching staff, masters and doctoral students who have completed scientific missions in Kazakhstan in 2018

| № | Full name | Academic title, position | Place and duration of the trip | Purpose of the trip | Source of financing |
|---|-------------------|---|-----------------------------------|--|-------------------------|
| 1 | Kasymbekova D. | c.ch.s, head teacher | Kyzylorda 2-3 April 2018 | X Republican subject Olympiad, specialty "Chemistry" | MES RK |
| 2 | Zhaksibaeva Zh.M. | X International Scientific and Practical Conference, Nazarbayev Intellectual Schools. | Astana, October 25-26, 2018 | Organization and holding of exhibitions of educational resources (textbooks, tutorial, booklets, brochures). | KazNPU named after Abai |

Table 6

The list of teaching staff, masters and doctoral students who have accomplished foreign scientific missions in 2018

| № | Full name, academic title, position | Country | Date of trip | Purpose of the trip | Source of financing |
|---|-------------------------------------|---|----------------------------|--|-------------------------|
| 1 | Ilyasova G.U | Poland, Belostok | 04.04.- 14.04.2018r. | Scientific internship | KazNPU named after Abai |
| 2 | Turgumbaeva R.H. | Great Britain | 16-31 October 2018 r | Acquaintance with the university, listening to lectures by leading academic scientists, conducting experiments on the topic: "Research of polymer hydrogels for obtaining new drugs" | At own expense |
| 6M60600-Chemistry, masters of the 2nd year of study | | | | | |
| 1 | Zhantyles G.Zh | Lithuania, Lithuanian University of Food Sciences | 19.05.2018- 29.05.2018 | Internship | KazNPU named after Abai |
| 2 | Kenesov E. | Lithuania, Lithuanian | 19.05.2018- | Internship | KazNPU named |

| | | | | | |
|--|---|--|-----------------------|------------|-------------------------|
| | | University of Food Sciences | 29.05.2018 | | after Abai |
| 3 | Rysbaeva S. | Литва, Литовский Едукологический Университет | 19.05.2018-29.05.2018 | Internship | KazNPU named after Abai |
| 4 | Ashyrbakieva K.E. | Lithuania, Lithuanian University of Food Sciences | 19.05.2018-29.05.2018 | Internship | KazNPU named after Abai |
| 5 | Iskakov D. | Lithuania, Lithuanian University of Food Sciences | 19.05.2018-29.05.2018 | Internship | KazNPU named after Abai |
| 6M011200-Chemistry, masters of the 2nd year of study | | | | | |
| 1 | Anarbekkyzy E | Poland, Candia, Technical-Linguistic University | 13.11.2018-23.11.2018 | Internship | KazNPU named after Abai |
| 2 | Sattar P | Poland, Candia, Technical-Linguistic University | 13.11.2018-23.11.2018 | Internship | KazNPU named after Abai |
| 3 | Mynzhasar A. | Poland, Candia, Technical-Linguistic University | 13.11.2018-23.11.2018 | Internship | KazNPU named after Abai |
| 4 | Zaurova S. | Poland, Candia, Technical-Linguistic University | 13.11.2018-23.11.2018 | Internship | KazNPU named after Abai |
| 5 | Lekerov A. | Poland, Candia, Technical-Linguistic University | 13.11.2018-23.11.2018 | Internship | KazNPU named after Abai |
| 6 | Zhakyppai A. | Poland, Candia, Technical-Linguistic University | 13.11.2018-23.11.2018 | Internship | KazNPU named after Abai |
| 7 | Turik K | Poland, Candia, Technical-Linguistic University | 13.11.2018-23.11.2018 | Internship | KazNPU named after Abai |
| 8 | Urazgaliova A. | Poland, Candia, Technical-Linguistic University | 13.11.2018-23.11.2018 | Internship | KazNPU named after Abai |
| 9 | Erezhep A. | Poland, Candia, Technical-Linguistic University | 13.11.2018-23.11.2018 | Internship | KazNPU named after Abai |
| 10 | Beisekova A. 6D011200- Chemistry, doctoral students 2nd year of study | Russian Pedagogical University named after A.I. Herzen | 21.05-03.06.2018 | Internship | KazNPU named after Abai |
| 11 | Katpaeva L. 6D011200- | Russian Pedagogical University named after A.I. Herzen | 21.05-22.06.2018 | Internship | KazNPU named after Abai |

| | | | | | |
|----|--|--|----------------------|------------|-------------------------------|
| | Chemistry, doctoral student 1st year of study | | | | |
| 12 | Utemisova A. 6D011200- Chemistry, doctoral student 1st year of study | Russian Pedagogical University named after A.I. Herzen | 21.05- 03.06.2018 | Internship | KazNPU named after Abai |

Table 7

**The list of teaching staff, performing research on international topics and the MES of the RK,
funded by other organizations in 2018**

| № | Full name,academic title,position | Name of the project | Name of the source organization of funding | Amount of funding |
|---|--------------------------------------|---------------------|---|-------------------|
| | | | | |

Table 8

**The list of teaching staff,who participated in the internal university project and the MES RK
funded by Abai KazNPU in 2018**

| № | Full name,academic title,position | Name of the project | Amount of funding |
|---|-----------------------------------|---------------------|----------------------|
| 1 | | | |

Table 9

**The of teaching staff who participated in projects sponsored by the MES RK and other
organizations of the RK in 2018**

| № | Full name, head, academic title, position | Name of the project | Title Source of funding organizations | Amount of funding |
|---|---|---|--|----------------------|
| 1 | d.p.s.,professor Akhmetov N.K. | The use of information and computer technology in teaching chemistry through gaming training | KazNPU named after Abai | 22600000 tg |
| 2 | Chinibaeva N.S. | Scientific and technical substantiation of innovations in the chemical cluster in the field of creating new materials and technologies for increasing the efficiency and environmental sustainability of industrial production | KazNRTU K.I. Satpayev | 368665976 tg |

Table 9/1

List of scientific articles published in foreign countries

| № | Full name, academic title, position | Publication name | Output: Magazine, country, city, year, indication of pages |
|---|---|---|---|
| 1 | Nazym M. Zhunusbekova ¹ , Nurzhan S. Chinibayeva ² , Zhanar M. Zhaksybayeva ² , Zoya K. Tuiebakhova ¹ , Tynyshtyk K. Iskakova ¹ , Gaukhar M. Kashakova ¹ , Nazgul N. Torekhan ¹ | Biocatalytic activity of various biopolymeric complexes with transient metal ions | Journal of Chemical Technology and Metallurgy, 53, 1, 2018, 9-16p. Bulgaria |

Note: DO NOT place publications in print in the above table.

Table 9/2

List of articles published in the near abroad in 2018

| № | Full name, academic title, position | Publication name | Output: Magazine, country, city, year, indication of pages |
|---|-------------------------------------|---|--|
| 1 | Beknazarova A.B., Meirova G. | Methodological issues of creating a distance course of organic chemistry for pedagogical universities | Modern problems of science and education, Moscow, RF. 2018. No. 4, p. 112-116. (RYNTS) |

Note: DO NOT place publications in print in the above table.

Table 9/3

List of scientific articles published in journals of Committee for the Control of Education and Science of the Ministry of Education and Science of the Republic of Kazakhstan in 2018

| № | Full name, academic title, position | Publication name | Output: Magazine, country, city, year, indication of pages |
|---|-------------------------------------|---|--|
| 1 | Mukataeva Zh.S. | Determination of the chemical composition of tea by modern physico-chemical methods: a review | International Journal of Biology and Chemistry.- 2018. - 11, №1, P. 142-152. |
| 2 | Ilyasova G.U. | Requirements to content and structure of the textbook | Science and life of Kazakhstan - Astana, № 2 (44) 2018.C.274-275 |
| 3 | Ilyasova G.U. | Didactic principles and rules of textbooks and manuals | Science and life of Kazakhstan - Astana, № 2 (44) 2018.C.271-273 |
| 4 | Bektenov N.A. | Ecology of oil and oil sorbents | Chemical Journal of Kazakhstan, 2018, No. 2, P.16-20 |

Note: DO NOT place publications in print in the above table.

Table 9/4

List of scientific articles published in other journals of the Republic of Kazakhstan in 2018

| № | Full name, academic title, position | Publication name | Output: Magazine, country, city, year, indication of pages |
|----|---|--|--|
| 1. | Zh.Shokybayev Zh. Kozhagulova D. Karazhanova M. Abdinagi | Explains the interest of students in chemistry | Chemistry at school. October 5, Almaty, 2018. 13-17h. |
| 2. | Zh. Shokybaev D.Karazhanova B. Zholdasbek | The Importance of environmental education in protecting the environment from chemical pollution | Chemistry at school. October 5, Almaty, 2018. 17 to 226. |
| 3. | Utemisova A., Shokybaev Zh. | Psychological directions of humanization of education | Science and Life of Kazakhstan. (International Scientific Magazine / International Research and Development Journal) №4 (60)2018. Astana, 2018. 179-183 6. |
| 4. | Beisekova A., Shokebaev Zh. | Effectiveness of using modern technology in educational process | Science and Life of Kazakhstan. (International scientific-popular journal / international science-popular magazine) №4 (62) 2018. Astana, 2018. 176-180 pages. |
| 5. | Mukataeva Zh.S. | Methods of formation of a creative person of the future chemistry teacher | Bulletin KazNPU them. Abay, a series of natural and geographical science. - 2018. № 2 (56). - S. 111-114. |
| 6. | Mukataeva Zh.S. | Formation of communicative competence of students using information technologies in self-study chemistry | Bulletin KazNPU them. Abay, a series of natural and geographical sciences. - 2018. №1 (55). - p. 164-166. |
| 7. | Nurakhmetova A.R. | Nanotechnology. Environmental Food Safety | Bulletin KazNPU them. Abay, a series of natural and geographical sciences. - 2018. №2 (56). - p. 95-99. |
| 8. | Nurakhmetova A.R. | Technology "Critical Thinking" and its use in the course of inorganic chemistry | Bulletin KazNPU them. Abay, a series of natural and geographical sciences. - 2018. №4 (58). - p. 167-171. |
| 9. | Sagimbaeva A., Burkitbaeva T., Kanat G. | Criteria-based assessment of students' knowledge in chemistry | Republican jubilee information magazine, 2018. №1, pp. 17-19 |

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| 10. | Sagimbaeva A., Manapov N., Burkitbaeva T. | Today's laboratory lesson from physical chemistry | Bulletin of the KazNPU named after Abai, Series of Natural- geography, 2018. №1 (55). B.98- 101 |
| 11. | Sagimbaeva A., Burkitbaeva T. | Application of Formative Assessment in Chemistry Lesson | Education Times Republican Scientific-methodical Pedagogical Magazine, №3 (6) 2018, pp. 18-23. |
| 12. | Sagimbaeva A., Manapov N., | Electronic textbook assembly section on the topic "Important s-elements and their compounds" in the subject of chemistry of the 10th class | Bulletin of the KazNPU named after Abai, series Natural- geography, 3 (57) 2018, B.33- 38. |
| 13. | Z.Unerbayeva E.Nurgazyeva | Methods of solving from Chemistry educational manual | Kazakh National Pedagogical University named after Abay, №3(57), 2018. – 115-119 p. |
| 14. | Z.Unerbayeva | Chemical training method practice | Kazakh National Pedagogical University named after Abay №3(57), 2018. – 110-114 p. |
| 15. | Z.Unerbayeva | Some Issues of Teaching a Carbon Tale | Herald . Scientific and Pedagogical Center № 3 (49), 2018, 113-115 p |
| 16. | Unerbaeva Z.O. | The heroine is a noble heart | Chemistry. Republican scientific-educational pedagogical magazine. № 6 (62) 2017. November-December. 10 p. |
| 17. | Unerbaeva Z.O. | The scientist is 75 years old | Chemistry. Republican scientific-educational pedagogical magazine. № 6 (62) 2017. November-December. |
| 18. | Unerbaeva Z.O. | Honorable teacher | Chemistry. Republican scientific-educational pedagogical magazine. № 6 (62) 2017. November-December. |
| 19. | Unerbaeva Z.O. | Formation of students' research skills in chemistry | Chemistry. Republican scientific-educational pedagogical magazine. No. 2 (64) 2018. Nauryz-April. 18-20 p. |
| 20. | Unerbaeva Z.O. | My gold teacher is right | "Chemical Directory", №1-2018. 10-11 p. |
| 21. | Unerbaeva Z.O. | Formation of students' research skills in chemistry | Chemistry at school. No. 1 (91), January-February 2018. |
| 22. | Unerbaeva Z.O. | I.N. Data on Nugmanov | Chemistry at school. №4 (94) 2018 54-55 p. |

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| 23. | Meirmanova A. Sagyntaiuly N | Methods of performance of Olympic tasks | Republican scientific-pedagogical magazine // №3 (93), 2018. 27-33b. |
| 24. | Meirmanova A. Almesh D. | Gaming technology in education | Bulletin of KazNPU named after Abai: Series "Natural-geographical sciences". №-3 (57) -Almaty, 2018, p.50-54. |
| 25. | Meirmanova A. Mynzhasar A. | Basis for elimination of elective courses and reference books in solving problems of chemistry and practical tests in preparation of high school pupils in the new format | Bulletin of KazNPU named after Abai: Series "Natural-geographical sciences". №-3 (57) Almaty, 2018, pp.36-41. |
| 26. | Bekturov E. Kudaibergenov S. | Associates and complexes of macro-molecular nano-objects | White Paper on Nanotechnology, Vol.2, 2018, P.115-119 |
| 27. | Bekturov E. Kudaibergenov S. | Polymer nanoobjects | White Paper on Nanotechnology, v.2, 2018, p. 50-72 |
| 28. | Duisenova T.K., Zhaksybayeva Zh.M., Zhandabayeva M.A., Satmbekova D.K. | The peculiarity of conducting a practical lesson in English as a part of the state program "Triading" on "Adsorption of Acetic Acid on Activated Coal Surface". | «Natural-geographical science», Almaty: «Ulagat». 2018. No. 1 (55). - S. 158-163. |
| 29. | Dubinina E.S., Zhaksybayeva Zh.M., Chinibaeva N.S., Sattar P., Elikbaeva M.O. | Raw material of glass production: soluble mercury-free silicon and its compounds. | Bulletin, Series "Naturalgeographical science". Almaty: "Ulagat". 2018. No.2 (56). - S. 35-40. |
| 30. | Mansurov B. | Test task on subjects "substances and mixes" and physical and chemical phenomena | Bulletin, series of "Natural-geographical sciences", №1(55), 2018, P.213 |
| 31. | Mansurov B. | The chemical properties of cycloparafins | Bulletin, series of "Natural-geographical sciences", №2(56), 2018, p.133 |
| 32. | Bukharbaeva F. | The effectiveness of critical thinking technology in teaching chemistry and ecology | International scientific-pedagogical publication "Higher School of Kazakhstan" 3 (1) / 2018. |
| 33. | Seitzhanov A. | Department of Chemistry - 90 years | Bulletin of the KazNPU named after Abay: The Series of "Natural Geographical Sciences". №3 (57) -Almaty, 2018, p.124-133. |
| 34. | Diusenova T., Zhaksibaeva Zh. | The influence of physics and colloid chemistry on the professionalism of pharmaceutical professionals. | «Education», Astana, 2018, pp. 85-88. |

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| 35. | Mansurov B. | Salt-related problems and test tasks | Chemistry at school. №4, Almaty, 2018, p 19-23. |
| 36. | Meirova G., Lesbay G. | Synthesis of polysaccharide microencapsulated naphthyl containing piperidol derivative | Bulletin KazNPU them. Abaya, Ser.natural- geogr., 2018. №3, pp.41-46. |

Note: DO NOT place publications in print in the above table.

Table 9/5

List of abstracts of scientific conferences published in foreign countries in 2018

| № | Full name, academic title, position | Publication name | Output: Magazine, country, city, year, indication of pages |
|---|--|--|---|
| 1 | Nazym M. Zhunusbekova ¹ , Nurzhan S. Chinibayeva ² , Zoya K.Tuiebakhova ¹ , Tynyshtyk K. Iskakova ¹ , Gaukhar M. Kashakova ¹ , Nazgul N.Torekhan ¹ | Investigation of the Decomposition Reaction of Hydrogen Peroxide by Model Catalysts Based on IPN-metal Complexes | XXVIII International Conference on Organometallic Chemistry, Florence Italy), 15-20/7/2018, P267 |
| 2 | Ospanhanova L.A., Jusupbekova N.S., Kalieva G.S. | Development of cognitive activity and creative potential of students in biology class | Proceedings of the XIVth International Scientific and Practical Conference, Czech Republic, Prague, 2018, Volume 8, P.65-67 |
| 3 | Kosherbaeva A., Zhusupbekova N.S., Kamieva G.S. | Activation of knowledgeable elements in the biology of actives | Proceedings of the XIII International Scientific and Practical Conference "Trends in Modern Science", United Kingdom, Sheffield, 2018, volume 8, p. 84-87 |

Note: DO NOT place publications in print in the above table.

Table 9/6

List of abstracts of scientific conferences published in the near abroad in 2018

| № | Full name, academic title, position | Publication name | Output: Magazine, country, city, year, indication of pages |
|---|-------------------------------------|--|---|
| 1 | Unerbaeva Z.O., Samikhova M.R. | Ways of developing creative thinking in schoolchildren in teaching chemistry | Collection of articles of the international scientific-practical conference "Promising areas of research in the methodology of teaching biology and ecology", St. Petersburg, 2018, |

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|---|--------------------------|--|--|
| | | | P.162-166 |
| 2 | Bekturov E. | Polymers in nanotechnology | Uzbek-Kazakhstan Symposium "Problems of the Science of Polymers", Tashkent, 2018, September, p.12-14 |
| 3 | Zhaksibaev Zh. | Aromatization of propane-butane fraction on supported modified catalysts | Proceedings of the XXIII International Scientific and Practical - Conference "Innovation-2018", Tashkent, October 26-28. |
| 4 | Bektenov N., Ergozhin E. | Development of new phosphorus-containing complexones and their application | Uzbek-Kazakhstan Symposium "Problems of the Science of Polymers", Tashkent, 2018, September, P.26-27 |

Table 9/7

List of abstracts of scientific conferences published in the Republic of Kazakhstan in 2018

| | Full name, academic title, position | Publication name | Output: Magazine, country, city, year, indication of pages |
|---|---|---|---|
| 1 | Zhunusbekova N.M., Chinibayeva N.S., Zhaksibayeva Zh.M. | The study of the reaction of hydrogen peroxide model based on crosslinked polymer-metal complexes | Conference materials K.I. Satpaev readings "Innovative solutions to traditional problems: engineering and technology", Almaty, 2018, p.268-271 |
| 2 | Zhunusbekova N.M., Chinibayeva N.S., Iskakova T.K., Shaimerdenova M.M., Torekhan N.N., Kashakova G.M. | Aspects of practical application of synthetic polymer-metal complexes as model catalysts | Conference materials K.I. Satpaev readings "Innovative solutions to traditional problems: engineering and technology", Almaty, 2018, 268-271p. |
| 3 | Zh.Shokybayev Zh.Kozagulov D.A.Karazhanova M.U.Abdinagi | Teaching of secondary school chemistry by conducting experiments | Sadykov's readings -V Materials of the International scientific-practical conference dedicated to the 80th anniversary of academician of the National Academy of Sciences of the Republic of Kazakhstan, Doctor of Historical Sciences, Professor TS Sadykov «Actual problems of modern education and science». Almaty, 2018, pp. 175-179 |
| 4 | Utemisova A.Zh. | The works of scientists on the | Materials of the international scientific-practical conference "Spiritual |

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|---|--|---|---|
| | Shokybayev Zh.A. | humanist world during the renaissance period | modernization - the basis of dynamic development of Kazakhstan" / International scientifically-practical conference "Modernization of social life - the dynamical development of Kazakhstan in modernization". Taldykorgan, 2018. 429-434 |
| 5 | Ilyasova G. | Didactic bases of textbooks development | Collection of works of the Republican scientific-practical conference "Actual problems of chemical education" - Kyzylorda, 2018, 178-183 B. |
| 6 | Unerbaeva Z.O. | Formation of professional competence of chemical specialists. | Sadykov's readings - V. "Actual problems of modern education and science". Volume II. 54-56 B. |
| 7 | Adamsopi T.B., Zhusupbekova N.S . | Use of triangular training in biology | International scientific-practical conference on modern directions of education and science development in chemistry, biology, ecology and geography, Almaty, 2018. B.186-187. |
| 8 | Ospanhanova L.A., Zhusupbekova N.S. | Formation of cognitive activity of students through creative work | International scientific-practical conference on modern directions of education and science development in chemistry, biology, ecology and geography, Almaty, 2018. - p.249-251 |
| 9 | Bukharbaeva F.U. | Radiology of Aral-Syrdarya basin and sea problems | "Modernization of the knowledge of natural sciences in the context of renewed content" Materials of international scientific-practical conference 563-566 p |

Note: DO NOT place publications in print in the above table.

Table 10

List of articles published in journals with impact factor in 2018.

| № | Full name, academic title, position | Publication name | Output: Magazine, country, city, year, indication of pages | Quotation citation, index citation |
|---|---|--|---|------------------------------------|
| 1 | R.Kh Turgumbayeva ¹ , M N Abdikarimov ² , R Mussabekov ³ , D Sartayev ² | Mathematical modelling of optimization of structures of monolithic coverings based on liquid rubbers | Journal of Physics: Conference Series (SCOPUS): May 2018, Volume 1015, 032144 | SCOPUS |

| | | | | |
|---|---|--|---|--------|
| 2 | R.Kh Turgumbayeva ¹ , M N Abdikarimov ² , S SSagintayeva ² | Calculation of temperatures in condensed phase of burning PMMA by equation of Michelson, Mullar and Le Chatelier | Journal of Physics: Conference Series (SCOPUS): May 2018, Volume 1015, 032145 | SCOPUS |
| 3 | Mansurov B.A. | Nanosized Catalysts in the Process of Hydrogenating Acetylene | Eurasian Chemical-Technological Journal 20 (2018) 249-254 | SCOPUS |

Table 11

List of published monographs in 2018.

| № | Full name, academic title, position | Monography name | Output: Magazine, country, city, year, indication of pages |
|---|-------------------------------------|-----------------|--|
| 1 | | | |

Note: DO NOT place publications in print in the above table.

Table 12/1

Список учебников, пособий для учителей, рабочих тетрадей для школ РК, изданных в 2018 г.

| № | Full name, academic title, position | Monography name | Output: Magazine, country, city, year, indication of pages | The body that recommended the textbook for publication |
|---|-------------------------------------|-----------------|--|--|
| | | | | |

Note: Do not indicate the CMD, EMCDO, syllabus, GOSO, etc .

Table 12/2

List of textbooks for universities in 2018

| № | Full name, academic title, position | Monography name | Output: Magazine, country, city, year, indication of pages | The body that recommended the textbook for publication |
|---|-------------------------------------|--|---|--|
| 1 | Z.Unerbayeva E.Nurgaziyeva | Methods of solving from Chemistry educational manual | Kazakh National Pedagogical University named after Abay. "Ulagat", 2018. – 168 p. | Council Institute of Natural Sciences and Geography of Kazakh National Pedagogical University named after Abay |
| 2 | Z.Unerbayeva | Chemical training method practice | Kazakh National Pedagogical University named after Abay. "Ulagat", 2018. – 166 p. | Abay Kazakh National Pedagogical University by the speciality "Education" of the Republican Educational and |

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|---|------------|--|---------------------|--|
| | | | | Methodological Council of the MES RK. |
| 3 | E.Bekturov | | KazNU, 2018, p.,285 | Editorial and Publishing Council of the Al-Farabi Kazakh National University |

Table 12/3

List of educational and teaching aids for universities.

| № | Full name, academic title, position | The name of the training manual | Output: Magazine, city, year, indication of pages | The body that recommended the textbook for publication |
|----|-------------------------------------|---------------------------------|---|--|
| 1. | | | | |

Note: Do not indicate the CMD, EMCDO, syllabus, GOSO, etc .

Table 12/4

List of teaching aids for universities, published in 2018

| № | Full name, academic title, position | Textbook title | Output: Magazine, city, year, indication of pages | The body that recommended the textbook for publication |
|---|-------------------------------------|----------------|---|--|
| | - | - | - | - |

Note: Do not indicate the CMD, EMCDO, syllabus, GOSO, etc .

Table 13

List of publications and speeches in the media, on radio, television, etc.in 2018

| № | Full name, academic title, position | Date | Media name | Title of the article or speech |
|---|---|---------------------|--|---|
| 1 | Zhodibayev Zh.K., Karazhanova D.A., Zholdasbek B.K., Bekenova | 27.11.2018 | Sovereign Kazakhstan newspaper | The concept of the Great Steppe's Creation |
| 2 | Unerbaeva Z.O. | 23 september 2018ж. | Newspaper of Abai Kazakh National Pedagogical University | Life is embroidered |
| 3 | Unerbaeva Z.O. | 18 January 2018. | Newspaper of Abai Kazakh National Pedagogical University | The treasure of education |
| 4 | Zhaksybaeva Zh. | 17 may 2018ж. | Newspaper of Abai Kazakh National Pedagogical University | “League of chemistry”: intellectual competition |

Table 14**Information on scientific events and conferences held in 2018**

| № | Status and job description | Location, posting |
|---|----------------------------|-------------------|
| 1 | | |

Table 15**Information about cooperation with foreign universities**

| № | Name of a foreign university, full name, position, uch. degree and rank of partners | Theme of cooperation | Events held (place and time) |
|---|---|----------------------|------------------------------|
| | | | |

Table 16**Information about cooperation with schools, lyceums, colleges, etc in 2018**

| № | Name of educational institution, full name, position of partners | Type of cooperation | Events held (place and time) |
|---|--|----------------------|------------------------------|
| 1 | Director of the gymnasium №13 Duisenbayeva N.E. | Pedagogical practice | 9.01.18-25.03.18 |
| 2 | Nazarbayev Intellectual School | Pedagogical practice | 9.01.18-25.03.18 |
| 3 | №146 lyceum, Almaty | Pedagogical practice | January-march, 2018 |

Table 17**List of students and undergraduates - winners of various competitions, etc in 2018**

| № | Full name, course, cipher and specificity | Full name, position of supervisor | Name of the competition / Olympiad (place: city, university, date, year,) | Kind of promotion (for what discipline diploma, diploma, place, etc.) |
|---|--|--|--|---|
| 1 | Sergazina Meruert 6D060600-Chemistry 2nd year of study | Mukataeva Zh.S. c.ch.s, assoc. professor, head of chair | Competition of research projects and start-up projects of young researchers for a grant from KazNPU named after Abai from 06.06.2018, Order No. 03-05 / 182 from 18.06.2018. The amount of financing is 2,000,000 tenge. | |

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|----|---|--|---|----------------------|
| 2 | Sagynthayuly Nursultan 6D011200-Chemistry 1st year of study | Meirmanova A. c.ch.s, head teacher, | Competition of research projects and start-up projects of young researchers for a grant from KazNPU named after Abai from 06.06.2018, Order No. 03-05 / 182 from 18.06.2018. The amount of funding is 2,300,000 tenge | |
| 3 | Khavazmetova Gauhar, 3rd year student, 5B011200-Chemistry-ecology | Onerbaeva Z.O. – c.p.s., assistant professor | 73th theoretical and theoretical conference of students and undergraduates. November 14-15, 2018 | 1 place |
| 4 | Sagynbayeva Kurbanai, 3rd year student, 5B011200-Chemistry-ecology | Onerbaeva Z.O. – c.p.s., assistant professor | 73th theoretical and theoretical conference of students and undergraduates. November 14-15, 2018 | 2nd place |
| 5 | Duisenbaeva Aseliya, 3rd year student, 5B011200-Chemistry-Ecology | Onerbaeva Z.O. – c.p.s., assistant professor | 73th theoretical and theoretical conference of students and undergraduates. November 14-15, 2018 | 2nd place |
| 6 | Bayramova Leila, 4th year student, 5B011200-Chemistry-Ecology | Mansurov B. - professor, c.ch.s | 73th theoretical and theoretical conference of students and undergraduates. November 14-15, 2018 | 3rd place |
| 7 | Alseyitova Sabira, 2nd year student, 5B011200-Chemistry-ecology | Kozhagulova Zh - head teacher | 73th theoretical and theoretical conference of students and undergraduates. November 14-15, 2018 | 3rd place |
| 8 | Alimusa Nadira, 1st year student, 5B011200-Chemistry-ecology | Karazhanova D. - head teacher | 73th theoretical and theoretical conference of students and undergraduates. November 14-15, 2018 | 3rd place |
| 9 | Abdinagi Moldir Master, 6M011200-Chemistry | Shokybaev Zh. - professor | 73th theoretical and theoretical conference of students and undergraduates. November 14-15, 2018 | 1 place |
| 10 | Nasyr Zahida Master1 course, 6M060600-Chemistry | Bektenov N.A. - professor, д.г.н. | 73th theoretical and theoretical conference of students and undergraduates. November 14-15, 2018 | 2nd place |
| 11 | 3rd year students of the specialty 5B011200-Chemistry Department of Chemistry | Head teacher, c.ch.s Zhaksibaeva Zh.M.. | Intellectual game «League of Chemists». In the framework of the project "Spiritual Renaissance" is KazNU named al-Farabi, Faculty of Chemistry and Chemical Technology, | Diploma of II degree |

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|----|------------------------|--|--|-----------------------|
| | | | Department of Physics Chemistry, Catalysis and Petrochemicals. November 23, 2018 Almaty. | |
| 12 | Sagynthayuly Nursultan | c.ch.s assistant professor Meirmanova A. | Republican competition of research works of students and undergraduates of universities | Diploma of I degree |
| 13 | Zhakyypbai A. | head teacher, c.ch.s Sagimbaeva A. | Republican competition of research works of students and undergraduates of universities | Diploma of II degree |
| 14 | Sattar Perizat | head teacher, c.ch.s Zhaksibaeva Zh. | Republican competition of research works of students and undergraduates of universities | Diploma of II degree |
| 15 | Hakimova Makhiryam | assistant professor Nurakhmetova A.R. | Republican competition of research works of students and undergraduates of universities | Diploma of III degree |

Table 18/1

List of student publications in 2018.

| № | Full name of student author, collaborators | Student course, cipher and specialty | Title publications | Output: magazine, city, year, indication of pages |
|---|--|--------------------------------------|--------------------|---|
| | | | | |

Note: DO NOT place publications in print in the above table.

Table 18/2

List of masters publications in 2018.

| № | Full name of student author, collaborators | Student course, cipher and specialty | Title publications | Output: magazine, city, year, indication of pages |
|---|--|--------------------------------------|---|---|
| 1 | Sagyntaiyly N. | 6M011200-Chemistry | Methods of performance of Olympic tasks | Republican scientific-pedagogical magazine // №3 (93), 2018. 27-33p. |
| 2 | Almesh D. | 6M011200-Chemistry | Gaming technology in education | Bulletin of KazNPU named after Abai: Series "Natural-geographical sciences". №-3 (57) -Almaty, 2018, p.50-54. |
| 3 | Mynzhasar A. | 6M011200-Chemistry | Basis for elimination of elective courses and reference books in solving problems of chemistry and practical tests in preparation of high school pupils in the new format | Bulletin of KazNPU named after Abai: Series "Natural-geographical sciences". №-3 (57) Almaty, 2018, pp.36-41. |
| 4 | Hakimova Z. | 6M011200- | Technology of "critical aching" | Bulletin of KazNPU named after |

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|---|--------------|--------------------|--|--|
| | | Chemistry | and its use in inorganic chemistry " | Abai: Series "Natural-geographical sciences". №-4 (58) |
| 5 | Sailaubek A. | 6M011200-Chemistry | Computation methods in the form of test tasks. | Chemistry at school, № 4, 2018, 28-33 p. |

Note: DO NOT place publications in print in the above table.

Table 18/3

List of publications doctoral students in 2018 .

| № | Full name of student author, collaborators | Student course, cipher and specialty | Title publications | Output: magazine, city, year, indication of pages |
|---|--|--------------------------------------|---|---|
| 1 | Beisekova A. | 3 course 6D011200-Chemistry | Effectiveness of using modern technology in educational process | Science and life of Kazakhstan №4 (62) 2018 Astana 2018 176-180 p. |
| 2 | Beisekova A. | 3 course 6D011200-Chemistry | The place of modern learning technologies in improving the quality of training future specialists | International scientific journal №6 (62) 2018 Astana 2018 126-130 p. |
| 3 | Beisekova A. | 3 course 6D011200-Chemistry | Use of modern technology in chemistry courses | Higher School in Kazakhstan International scientific-pedagogical magazine №4 (2) 2018 Almaty 2018 90-95 p. |
| 4 | Beisekova A. | 3 course 6D011200-Chemistry | Pedagogical features of modern teaching technologies in teaching chemistry | Bulletin of the Academy of Pedagogical Sciences of Kazakhstan №1 (5) 2018 Almaty 2018 101-106 p. |
| 5 | Beisekova A. | 3 course 6D011200-Chemistry | Didactic bases of the use of modern educational technologies in the educational process | Search International scientific-pedagogical magazine №4 (2) 2018. 85-89 |
| 6 | Utemisova A.Zh | 2 course 6D011200-Chemistry | Psychological directions of humanization of education | Science and Life of Kazakhstan. - Astana, 2018.-№4 (60). -B.179-183 ISSN 2073-5496 |
| 7 | Utemisova A.Zh | 2 course 6D011200-Chemistry | Place of humanization in society | Materials of the international scientific conference "XVIII Satpaev's readings" of young scientists, graduate students, students and schoolchildren. - Pavlodar: S. PSU named after S.Toraigyrov, 2018. - 488 pages, pp.141-146 |
| 8 | Utemisova A.Zh | 2 course 6D011200 | Key aspects of humanization education in | The international exhibition "X Toraigyrov readings" dedicated to |

| | | | | |
|----|-------------------|-----------------------------------|---|--|
| | | Chemistry | higher education institutions | the 125th anniversary of S.Toraigyrov. practice. conf materials. - Pavlodar: S. PSU named after S. Toraigyrov, 2018. B.52-57 |
| 9 | Utemisova A.Zh | 2 course 6D011200 Chemistry | The work of scientists on the humanist world during the renaissance | Materials of international scientific-practical conference "Spiritual modernization - the basis of dynamic development of Kazakhstan". - Taldykorgan, I. ZhSU named after I.Zhansugurov, 2018.-B.429-433 |
| 10 | Utemisova A.Zh | 2 course 6D011200 Chemistry | Current state of humanization of chemistry in higher education institutions | "Trends in the Development of Science and Education in the Contemporary World". "Ualiev Readings-2018": People. fig-fig conf mater Collection = Ust-Kamenogorsk: East Kazakhstan State University named after S. Amanzholov, 2018.-552, volume 2 - p.105-110 |

Note: DO NOT place publications in print in the above table.

APPLICATIONS

- 1 Laminated copies of patents, pre-patents, copyright certificates ;
- 2 Reprints of articles published in journals with impact factor in the reporting year;
- 3 Screenshot from the site database of quoting articles published in journals with impact factor;
- 4 1 copy of monographs published in the reporting year ;
- 5 Copies of the title page and the last page of monographs, textbooks, manuals;
- 6 Copies of certificates, diplomas and other award documents received by students and masters;
- 7 Copies of contracts with foreign universities;

Conclusion

All areas of research are relevant and both scientific and applied value. In this regard, in all scientific areas of the department the work will be continued in the next calendar year. Approbation of the results on the main topics of research work is carried out in the form of publications, discussions at scientific and methodological seminars, reports at conferences, defense of theses

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In general, in 2018, the faculty, undergraduates and doctoral students of the Department of Chemistry conducted research at the appropriate level. Monographs, scientific articles were published in the countries of near and far abroad. Were invited for advanced training c.ch.s Bakenov Zh.B. from

the Kyrgyz State University named after I. Arbaev and academician of Tomsk Polytechnic University, d.c.s. Bakibayev A.A.

Employees of the department need to intensify work on participation in competitions for grants. As well as students and undergraduates need to expand participation in scientific conferences and the publication of articles in journals. The professor and teaching staff should develop the development of textbooks for schools and universities, increase the number of articles from impact factors and print scientific articles in conferences abroad. For the near future, the staff of the Department of Chemistry is scheduled to participate in conferences of foreign countries and the release of articles with impact factor.