RESEARCH NEWSLETTER
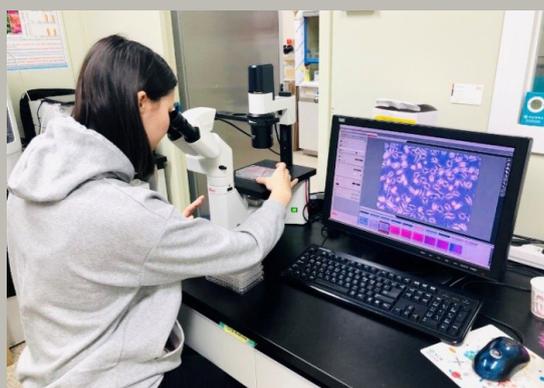
OFFICE OF THE PROVOST - RESEARCH ADMINISTRATION
QUARTERLY EDITION

June 28, 2019 | Issue 23

IN THIS ISSUE

School of Mining and Geosciences News

First geology field trip to the Karagiye Depression (Western Kazakhstan)

Aim of the project

In the framework of a collaborative project between the JURASSICA Museum (Switzerland) and the School of Mining and Geosciences (SMG) at Nazarbayev University (NU), project which is funded by a Seed Funding Grant of the University of Geneva, three researchers (Davit Vasilyan of the JURASSICA Museum, Sergei Lazarev of Utrecht University, and Laurent Richard of Nazarbayev University) organized a geology field trip to the Karagiye Depression. With the objective of integrating research into teaching, six undergraduate students from SMG joined the expedition. During this field trip, the students were introduced to different geological field techniques (see below). The overall aim of the collaboration between the JURASSICA museum and SMG is two-fold:

•the study of the late Miocene paleogeographic evolution of the Eastern Paratethys Sea;

•the joint development of a high-level Paleontology course and the establishment of a paleontological teaching collection at NU;

Geology

The Karagiye Depression, which is located in the Mangystau region, was once part of a great inland sea known as the Paratethys. Starting from 12.65 million years ago, the Paratethys became isolated from the global ocean and later separated into several minor seas, remnants of which are the Black Sea, the Caspian Sea and the Aral Sea which we know today. The field trip to the Karagyie Depression was aimed at studying the paleogeographic evolution of the Eastern Paratethys during the late Miocene. Concomitantly, the students got a first-hand experience in sedimentology, stratigraphy, and paleontology.

During the fieldwork, basic geological field techniques were used, including trench digging, section logging, and observation of sedimentological structures. The use of both a geological compass and Jacob's staff allowed to measure the orientation of bedding surfaces and to estimate stratigraphic thicknesses of sediments. The theoretical knowledge gained during the lessons of Geology at SMG was put into practice in the field. The sedimentary rocks described by the students in terms of their color, grain size and structures included sandstones, siltstones, claystones, and marls. To establish the polarity pattern of the studied sedimentary sections and to determine their precise age, paleomagnetic samples were taken. In addition, fossils (ca. 12-10 million-year-old gastropods, bivalves, and whalebone fragments) were collected by the students, which will both provide a relative age for the sediments and help in the reconstruction of the paleoenvironment of the Eastern Paratethys.

SMG students Kamilya, Makhabbat, Mariya, Assel, Nurzhan, and Nurassyl (from left to right) in the Karagiye Depression

Authors:
Assel Zhalgasbayeva
Kamilya Omirzhankyzy
Makhabbat Duisekova
Mariya Shintassova
Nurassyl Kairatuly
Nurzhan Yessenbayev

Nazarbayev University hosts a forum on gender issues in Central Asia

NUR-SULTAN – Nazarbayev University's (NU) First Annual Gender Forum gathered more than 100 researchers, policymakers and practitioners June 13-14 to discuss challenges and changes in gender in Central Asia, reports NU's press service.

Keynote speakers were the Korean Institute of Advanced Technology's Graduate School of Science and Technology Policy Director Dr. So Young Kim, and Dr. Gulnara Ibrayeva, a researcher and evaluator focusing on gender equality and gender-sensitive approaches to development. The former presented an overview of the 20-year history of mainstreaming gender in science and technology policy in South Korea in her keynote speech.

"This forum is a great opportunity to set up a dialogue between researchers, practitioners, and institutions working in the gender field in Kazakhstan and abroad. We organized both theoretical and practical discussions of gender issues at the forum. For example, participants are faculty from the NU School of Medicine who raise issues that doctors face in their practical work with patients. Representatives of schools in Kazakhstan will discuss gender aspects of their work with school students," said NU Graduate School of Business Associate Professor Dr. Jenifer Lewis, who directs NU's Consortium of Gender Scholars (GenCon).

Based at NU, GenCon brings together and supports gender scholars in Kazakhstan, who aim to generate interdisciplinary research advancing women and gender equality. Gender-centric analyses were presented at the forum on domestic violence, emotional intelligence, STEM education, participation in policymaking and entrepreneurship, and sexuality education of youth.

Loretta O'Donnell, along with the Executive Organizing Team of Drs. Sejin Koo, Anna CohenMiller, Jenifer Lewis, and Aray Saniyazova

"My NU colleagues (Dr. Naureen Durani and Dr. Zumrad Kataeva) and I conduct extensive research on gender aspects in a school environment. In addition to studying the environment and experience of teachers and students in Kazakhstan, we also analyzed the content of textbooks of the seventh and eighth grade in the Kazakh, Russian and English languages," said NU Graduate School of Education Assistant Professor Dr. Anna CohenMiller, who also directs GenCon.

NU is an English-medium autonomous educational and research university in Nur-Sultan and was founded on former Kazakh President Nursultan Nazarbayev's initiative in 2010. It offers bachelor, masters and doctoral programs developed in partnership with the world's leading universities. There is "a near perfect gender balance among its students even in the STEM disciplines – of NU's five top students in its first graduating class, four were women, and two of those were STEM graduates," reads its 2018-2030 strategy.

The 1st Annual Gender Forum was sponsored through a grant from the Taiwan Foundation for Democracy, awarded to NU School of Humanities and Social Sciences Assistant Professor Dr. Sejin Koo and GSE's Dr. Anna CohenMiller. It was coordinated by The Consortium of Gender Scholars and an Executive Committee including Dr. Aray Saniyazova, Office of the President, along with Dr. Jenifer Lewis, Dr. Anna CohenMiller, and Dr. Sejin Koo. Sponsors included the Office of the Provost, the School of Humanities and Social Sciences, the Graduate Schools of Business, the Graduate School of Public Policy, the Graduate School of Education, and the Nazarbayev University Library. The program for the Forum can be found via this link.

THE ARTICLE IS TAKEN FROM ASTANATIMES.COM

PSIR professor Hélène Thibault participated in the Rose-Roth seminar organized by the NATO Parliamentary Assembly in Antalya, Turkey

Dr. Hélène Thibault participated in the 99th Rose-Roth Seminar Mediterranean and Middle East Special Group (GSM) organized by the NATO Parliamentary Assembly in Antalya, Turkey, April 12-14 2019. The seminars help familiarise legislators with key security and defence issues. Most importantly, they are an excellent tool for involving and integrating parliamentarians from partner parliaments in Assembly activities. Over 120 parliamentarians from NATO member and partner countries attended the seminar. A number of senior officials and experts attended the seminar which addressed Security and Diplomatic Challenges in the Greater Middle East.

Dr. Thibault's presentation entitled "Change and Stability in Central Asia: Cooperation and Rivalry" aimed at debunking two myths: 1- that Central Asia is an unstable region, 2- that Central Asia is isolated. She argued that regional cooperation is expanding between the "Stans" themselves and with international partners. She noted a shift in the involvement of Russia and China in the region. Whereas some observers argue that the two superpowers' presence will inevitably lead to intense competition, Dr. Thibault argued that their interests are more complementary than antagonistic. Even though China has replaced Russia as the main economic partner of Central Asian countries and has become an important player in the field of security, Russia remains a strategic indispensable actor. Cooperation with China and Russia is also facilitated by their shared values and a common focus on security and economic development rather than on the rule of law. Despite the relatively minimal influence of the West, Central Asian countries' multi-vector policies assure them cordial relations with most European nations and the United States.

PREPARED BY DR. HELENE THIBAULT

HOW KAZAKHS USE PROVERBS IN OUR GLOBALIZED WORLD: A DISCOURSE ECOLOGIES APPROACH

We each navigate our globalized world on a daily basis. We do this by interacting with others in person or online. Because we become accustomed to living in this way, we experience this as an ecological process. If we concentrate on the language that we use in the process, then we are considering discourse[1] ecologies[2].

In part, the ecology of a language has a physiological nature (interaction with other languages in the speaker's mind), and partly social (interaction with a society in which language is used as a means of communication). The ecology of a language depends on the people who teach it, use and pass on to other people. According to Arutyunova (1990), discourse is "... speech considered as a purposeful social action, as a component involved in the interaction of people and the mechanisms of their consciousness (cognitive processes). Discourse is a speech, immersed in life".

Kazakh speakers of all ages are seeking to lead a life of honor and strong moral character in a globalized world. As Tabıldıyev points out, Kazakhs view their proverbs as an entrustment and a resource for the future. Kazakh proverbs are used in specific contexts for specific purposes and thus their particular discourse ecologies can be considered.

Dr. Gulnara Omarbekova, Associate Professor of the Department of the Kazakh language and Turkic serves as PI for the Small Grant funded project entitled "How Kazakhs Use Proverbs[3] in Our Globalized World: a Discourse Ecologies Approach". She and her colleague, Dr. Elmira Orazaliyeva are working with Dr. Erik Aasland, a folklorist from the United States who specializes in both Kazakh oral tradition and digital anthropology to explore these discourse ecologies.

The discourse ecologies approach allows consideration of how this could be pursued on the societal/mass media level as well as in close personal interaction. Our assumption is that this will be distinct from following the Soviet past as well as simply assimilating into a generic globalized culture. Our investigation will consider how proverbs of the past can enjoy continued significance in contemporary Kazakhstan.

The team recently completed a month of field work. Omarbekova and Aasland worked with five regional universities carrying out 419 student surveys and 45 interviews with faculty. They are now in the process of preparing this data for analysis.

WRITTEN BY DR. GULNARA OMARBEKOVA

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Key Terms:
1 Discourse: the study of the oral or written use of language as a carrier of cultural processes and as a means of understanding them (Nurgelgi, 2007).
2 Discourse Ecologies: the process of circulation of linguistic resources, contact between different languages, and adaptation within specific languages (Stibbe, 2012) that creates linguistic, social, and interpersonal relationships guiding and enabling communication.
3 Proverb Fieldwork: the application of qualitative research methods to understand proverb usage in specific contexts.

Political Science Student Creates Datasets for Harvard Dataverse

Alisher Juzgenbayev, a student majoring in Political Science and International Relations and collaborating with Dr. Alexei Trochev, Associate Professor of Political Science and International Relations, has created datasets with information about the Constitutional Council of the Republic of Kazakhstan and the Constitutional Chamber of the Supreme Court of Kyrgyz Republic and published them on the Harvard Dataverse. The Harvard Dataverse is a repository for sharing, citing, analyzing, and preserving research data in all scientific disciplines, hosted by the Institute for Quantitative Social Science (IQSS), the Harvard Library, and Harvard University Information Technology (HUIT). The Constitutional Council datasets contain information about 171 decisions of the Council (1995-2019), its annual budgets and biographies of its members. Meanwhile, the Constitutional Chamber datasets report data on its 90 decisions (2013-2019) and biographical information about its members.

PREPARED BY PROF. ALEXEI TROCHEV

Best Dissertation Award 2018

In April 2019, Dr. Ainur Almukhambetova, Postdoctoral Research Fellow at NU Graduate School of Education, has been awarded the Comparative and International Education Society's Best Dissertation Award 2018 for her doctoral dissertation.

Dr. Almukhambetova obtained her PhD at Nazarbayev University Graduate School of Education in 2018. The advisory committee was composed by Dr. Daniel Hernandez Torrano (Associate Professor, NUGSE), Dr. Jason Sparks (Vice-Dean Academic, NUGSE) and Dr. Matthew Hartley (University of Pennsylvania). The External examiner of the dissertation was Dr. Martha Merrill (Kent State University).

The Comparative International Education Society (CIES) Eurasia SIG group is an academic and professional network, which brings scholars, practitioners, and students together to collaborate on the scholarly issues and social events, addressing educational development in the former Soviet Union and socialist countries, impacted by the Soviet/socialist legacies. The Best Dissertation Award is a non-monetary reward that recognizes the best dissertation or thesis by a member of CIES Eurasia SIG. The evaluation criteria included originality of research, appropriate use of scholarly literature, and quality of writing. Dr. Almukhambetova has been invited to submit a journal article derived from her doctoral dissertation in the prestigious journal European Education (Taylor and Francis).

Currently, Dr. Almukhambetova works as a Postdoctoral Fellow at Nazarbayev University Graduate School of Education and is the Principal Investigator or the project "Why the pipeline leaks? Understanding female higher education students' experiences in STEM in Kazakhstan.» The project is funded by the Nazarbayev University Faculty-Development Competitive Research Grants Program 2019-2021.The goal of the project is to analyze the experiences of female higher education students currently enrolled in science, technology, engineering, and mathematics (STEM) disciplines in universities in Kazakhstan to explore the factors related to their retention and progression in STEM educational pipeline.

SHARED BY PROF. DANIEL TORRANO

School of Medicine News

NUSOM receives a grant from the Bill & Melinda Gates Foundation to pilot a minimally invasive tissue sampling (MITS) technique study for the determination of the cause of perinatal and infant death in Kazakhstan (KAZCoDe project)

The MITS is a new technique that has been developed, refined and tested in the last seven years. It is a promising alternative technique to a full-scale diagnostic autopsy. MITS is carried out by trained pathologists, technicians and other healthcare professionals as a pathology-based surveillance tool for generating reliable mortality data.

Why is MITS important?

In high-income developed countries comprehensive mortality records show disease patterns and their changes over time. Equipped with this information, governments and health institutions can effectively plan and prioritize health funding, research and formulate policies to improve peoples' health and well-being. High-quality mortality data is limited or lacking in low- and middle-income countries (LMIC). Many facilities lack the resources and infrastructure needed for a complete diagnostic autopsy that is considered the gold standard for accurate mortality data. Where these are present, a complete diagnostic autopsy has a poor acceptability rate and has been declining all over the world.

MITS is a less invasive technique that employs targeted organ sampling using specialized kits. These samples are then subjected to detailed laboratory analysis to determine the cause of death or causal chain of events leading to death.

MITS is administered by an alliance (MITS SURVEILLANCE ALLIANCE), a consortium of member countries and institutions spread across North and South America, Europe, Africa and Asia (India). The Bill and Melinda Gates' Foundation through the Research Triangle International sponsors the consortium with its secretariat in North Carolina.
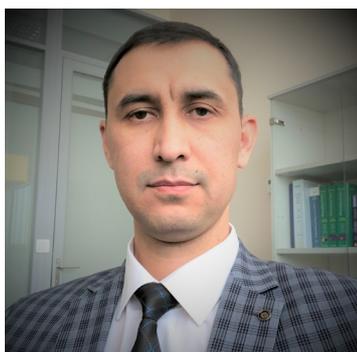

Dr. Matthew Naanlep Tanko, an Associate Professor of Practice in the Department of Biomedical Science, NUSOM is the recipient of this grant on behalf of NUSOM and is the PI of a pilot project captioned *"Minimally Invasive Tissue Sampling Technique for the determination of the cause of infant death in Kazakhstan (The KazCoDe Project)"*. Dr. Tanko has constituted a study team from NUSOM, UMC hospitals and the Pathoanatomical Bureau for the execution of this project. Dr. Tanko has just returned from a meeting of the MITS Surveillance Alliance in Seattle, Washington where he successfully defended the grant award and the secretariat is organizing and will sponsor the training of the study team members in MITS technique in August 2019. The project is scheduled to be rolled out in September 2019.

Diagnosing Children with Special Education Needs in Kazakhstan

The project proposal "*Diagnosing Children with Special Education Needs in Kazakhstan*", submitted by the Graduate School of Education at Nazarbayev University (NUGSE), in collaboration with Nazarbayev University School of Medicine (NUSOM) and Astana Medical University (AMU), will now be funded.

A 2-year study will run until the end of February 2021. The focus of this project is aiming to find out how intellectual impairment and autism amongst children are currently diagnosed in the Kazakhstani context. As part of the project, we will be holding meetings with senior officials of the Ministry of Health

Ministry of Education and Ministry of Labor and Social Protection to discuss the prospects for further cooperation in this project. We have already developed our survey and begun to distribute it among professionals (child psychiatrists, child neurologists, psychologist) and invitations for interviews will commence shortly. The research team is comprised of Prof. Sulochini Pather (PI), Dr. Michelle Somerton (Co-PI), Dr. Valentina Stolyarova (Co-PI), Prof. Altynshash Jaxibayeva (Co-PI) and Stanislav Khanin (Research Assistant).

Dr. Abduzhappar Gaipov joined NUSOM this year as an Assistant Professor in the Department of Clinical Sciences and has recently published the article "*Association Between Serum Prealbumin Level and Outcomes in Prevalent Kidney Transplant Recipients*" in the Journal of Renal Nutrition, describing the association between serum prealbumin levels (which is nutritional indicator) and long-term outcomes in kidney transplant recipients, using multivariate Cox survival models. These findings revealed that each 5 mg/dL lower serum prealbumin level was associated with a 20% higher risk of death with functioning graft and all-cause mortality. He has also contributed in a retrospective study "*History of posttraumatic stress disorder and outcomes after kidney transplantation*" which was published in the American Journal of Transplantation and contributed to a large epidemiologic study "*US Renal Data System 2018 Annual Data Report: Epidemiology of Kidney Disease in the United States*" which was published in American Journal of Kidney Disease. At the World Congress of Nephrology 2019 (Melbourne, Australia) Dr. Gaipov has been elected as a Deputy Chair in Regional Board of International Society of Nephrology (ISN). He will keep his responsibility to promote and develop nephrology care in Russia and the New Independent States including Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Russia, Tajikistan, Turkmenistan, Ukraine, Uzbekistan, during the following two years. During the ERA-EDTA-2019 Congress (Budapest, Hungary), he was honored as a top reviewer for CKJ – the Clinical Kidney journal (Official Journal of European Renal Association – ERA-EDTA).

Prof. Eugene Tulchinsky has co-authored a paper in oncogenesis "*An FBXW7-ZEB2 axis links EMT and tumor microenvironment to promote colorectal cancer stem cells and chemoresistance.*" In this paper, Prof. Tulchinsky and colleagues unravel a new molecular mechanism, by which the colorectal cancer cells display differences in resistance to chemotherapy and modulate, and potentially increase their metastatic potential.

SHARED BY DR. DIETER RIETHMACHER

PREPARED BY PROF. VASILEIOS INGLEZAKIS

Climate Change and Water Quality Workshop

Our ESTg member, Ph.D. candidate, Zhandos Tauanov has participated in Climate change and Water Quality Workshop which was held on 16th of April and organized by Durham University.

This workshop aimed at providing essential information to guide future climate change and water policy decisions at corporate and governmental levels. Zhandos has presented his work named as "Removal of mercury and iodide from water using fly ash derived zeolites and nanocomposites".

The organizers of this workshop are confident that such events will facilitate peoples' understanding of how climate change affects mining and agriculture industries, which could subsequently impact water quality. As a result, this becomes an issue of both social (health) and economic importance.

Joining the Editorial Board of Central Asian Journal of Water Research

Welcoming Letter

Dear Dr. Vassilis J. Inglezakis,

On behalf of the CAJWR Editorial Board we would like to welcome you to our team and we believe that your experience and vision will be a great asset to the CAJWR.

The Central Asian Journal of Water Research (CAJWR) is a peer-reviewed, open access, bi-lingual (English-Russian) e-Journal devoted to all aspects of water management in Central Asia and Afghanistan (ISSN 2522-9060).

CAJWR was established in 2015 and since then it has shown a continuous growth thanks to various contributions from the region and beyond, who have chosen CAJWR as a venue for their research work. In 2018, CAJWR was indexed in Google Scholar, the Russian Science Index System (RINZ), Publons, and received its DOI prefix by CrossRef. For 2019, we aim to continue our growing trend by including CAJWR in different Abstract and Indexations services, while being added to electronic library catalogue of various Central Asian academic and research institutions.

CAJWR is a forum for innovative review, reflection and discussion informed by recent and ongoing regional (Central Asia) and international water-related research. CAJWR bridges regional and international scientific communities, policy makers, developers and civil society with a view to sharing information and debate with the widest possible audience.

Your contribution to CAJWR will be valuable for the knowledge generation and scientific quality on water resources management aspects in Central Asia and Afghanistan.
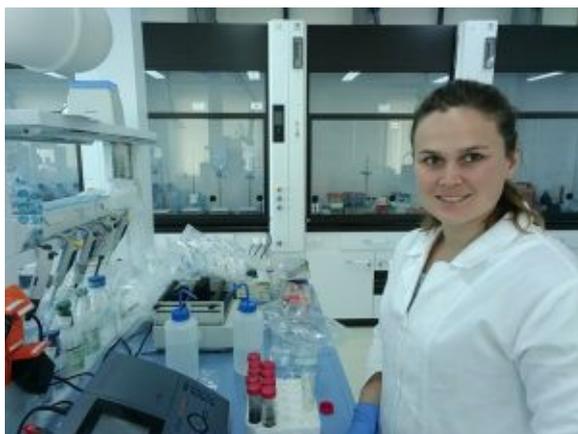
We congratulate our supervisor Dr. Vassilis Inglezakis with another appreciation of his efforts and hard work!

"The CAJWR Editorial Board would like to welcome Dr.Vassilis J. Inglezakis to their team and believes that his experience and vision will be a great asset to the CAJWR."

As it is written in welcoming letter we believe that "Your contribution to CAJWR will be valuable for the knowledge generation and scientific quality on water resources management aspects in Central Asia and Afghanistan".

Note: The Central Asian Journal of Water Research (CAJWR) is a peer-reviewed, open access, bi-lingual (English-Russian) e-Journal devoted to all aspects of water management in Central Asia and Afghanistan (ISSN 2522-9060).

ESTg is hosting visiting researcher at NU

Andrea Domán is a Ph.D. candidate at the Surface Chemistry Group, Faculty of Chemical Technology and Biotechnology, Budapest University of Technology and Economics, Hungary led by Prof. Krisztina László (http://www.fkt.bme.hu/~surf/?page_id=386). Andrea stays for a one-month secondment at Nazarbayev University in April 2019, within the frame of NanoMed project. This project belongs to Horizon 2020 Marie Skłodowska-Curie Research and Innovation Staff Exchange program (MSCA-RISE-2016).

Andrea is working under the surveillance of Prof. Vasileios Inglezakis, head of the Environmental Science & Technology Group (Chemical Engineering Department, Nazarbayev University).

Environmental Science & Technology Group has extensive experience in the application of various porous materials e.g. zeolites as adsorbents, to remove harmful substances such as heavy metals or iodide from aqueous solutions. Surface Chemistry Group has outstanding knowledge in design, preparation and characterization of resorcinol-formaldehyde (RF) based carbon aerogels and its composites. The purpose of this cooperation is the investigation of the I – and Hg 2+ adsorption from aqueous solution on nitric acid treated resorcinol-formaldehyde carbon aerogel and graphene oxide-
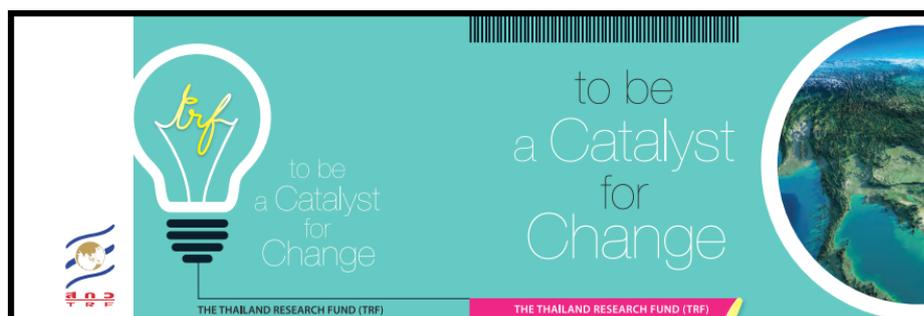

containing resorcinol-melamine-formaldehyde carbon aerogel and determining the adsorption kinetics and isotherms. The adsorption derived decrease in I – concentration of the solutions will be followed by UV-Vis spectrophotometer. In the case of Hg 2+ adsorption, a mercury analyzer with a pyrolysis technique will be used to quantify the amount of mercury in the solution.
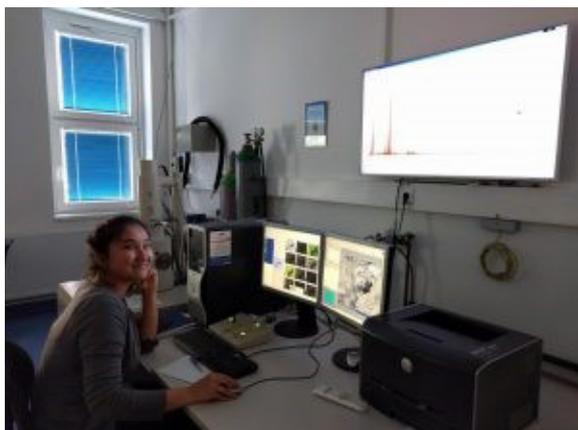
"We will analyze the possible structural changes of the carbon aerogels related to the chemisorption of the target ions with FTIR or other techniques. We would like to compare the adsorption performance of the two RF based carbon aerogels and also of the zeolites. Hopefully, the results will bring us closer to the main goal of NanoMed project, to develop proper adsorbents for the treatment of serious health conditions," told Andrea.

Projects proposal evaluator

Prof. Inglezakis was invited to act as a project proposals evaluator by the Thailand Research Fund (TRF) under the International Research Network (IRN) programme.

Traineeship in the framework of NanoMed at Budapest University of Technology and Economics, Hungary

Our ESTg member, Aliya Kudarova was participating in a 1-month traineeship in the framework of Nanoporous and Nanostructured Materials for Medical Applications (NanoMed) project at the Surface Chemistry Group Department of Physical Chemistry and Materials Science, Faculty of Chemical Technology and Biotechnology, Budapest University of Technology and Economics, Hungary.

The main aim of the work is to analyze the adsorption of I- and Hg^{2+} from the aqueous solutions and to characterize the zeolites before and after the adsorption experiment to investigate any changes in the material. To investigate the structural changes of the different types of zeolites the scanning electron microscope (SEM) and transmission electron microscope (TEM) techniques were used.

To analyze I – adsorption rate UV-VIS spectrophotometer was used. Analyses of Hg^{2+} adsorption ICP-MS technique was used to measure the concentration of mercury at different time points.

Becoming expert of Russian Science Foundation (RSF)

We are pleased to inform you that Prof. Vasileios Inglezakis is invited as an evaluator in the Information and Analysis System of the Russian Science Foundation (RSF).

For reference:
Russian Science Foundation was established on the initiative of the President of the Russian Federation to support basic research and development of leading research teams in different fields of science.

Professor Mert Guney at Erasmus Teaching Staff Exchange program (Erasmus+)

Prof. Guney completed Erasmus Teaching Staff Exchange program (Erasmus+).
He visited Estonian University of Life Sciences (Eesti Maaülikool) in Tartu, Estonia. Prof. Guney participated in teaching activities to international students on the topics of solid waste management and contaminated site management. He also participated in two site visits: a waste management facility and a contaminated site.

Congratulations with being an Associate Editor

We are pleased to inform you that Prof. Vasileios Inglezakis has been invited as an Associate Editor of the International Journal of Recycling of Organic Waste in Agriculture.

"We are approaching you because, given your expertise, our Editors would very much like your assistance on our journal", written in the invitation letter.

For reference:

The International Journal of Recycling of Organic Waste in Agriculture is a single-blind peer-reviewed open access journal published under the brand SpringerOpen, covering all aspects of recycling of organic waste. It is fully supported by the Islamic Azad University, who provide funds to cover all costs of publication, including the Article Processing Charges (APC's) for all authors. Therefore the journal is both free to read and free to publish in.

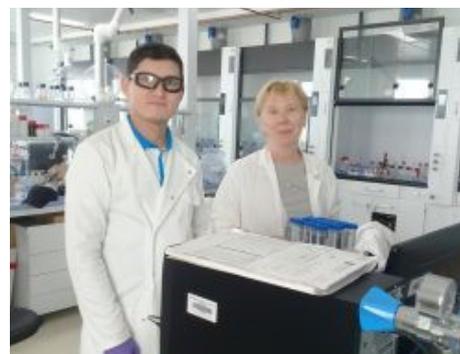## Gratitude letter to ESTg from Budapest University of Technology and Economics

''This is my very first visit to Kazakstan, lasting for a month and getting to the end by 1 June. I came here as a senior secondee of the H2020 NanoMed project from the Budapest University of Technology and Economics (BME) where I head of the Surface Chemistry Research Group. My visit follows the internship of my Ph.D. student Ms.Andrea Domán, who worked here also for a month in April. Both of us were hosted by the Environmental Science and Technology Group (ESTg). Within the frame of this EU supported one-month research project the main task of the BME team is to develop new materials for pollution control. Both Andrea and I were perfectly supported by our host, Prof. Vasileios J. Inglezakis and his group to have access to the outstanding analytical facilities of the Nazarbayev University to characterize those new materials.

Moreover, the one month period even allowed us to test our materials against model pollutants such as iodide and mercury. Based on the experience of the collaboration Vasileios and I decided to intensify our scientific cooperation. I am very thankful to Vasileios and his group as well as all the people who helped us during our stay at Nazarbayev University.''

Prof. Krisztina László

From Theory to Practice

In any learning process, it is important to focus the attention of students on the practical application of the knowledge gained. In order to obtain practical skills, it is necessary to integrate our laboratories and equipment into the educational process.

For the above purposes, 3rd-year undergraduate students were given the opportunity to get acquainted with the work of the Pilot-scale Fluidized Bed Laboratory (NURIS) during the tour as part of the course Separation Processes-II. At the end of the tour, students received answers to their questions, and also expressed their desire to participate in the running of those rigs.

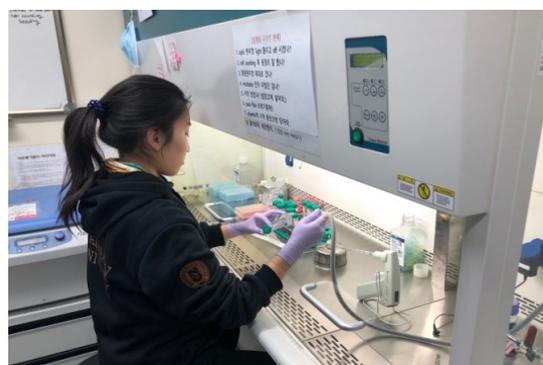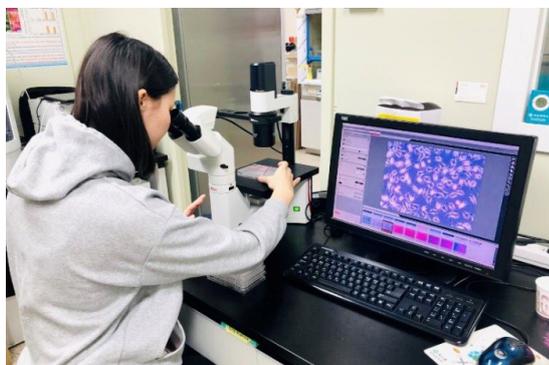Special thanks to Dr. Sarbassov for organizing this tour and sharing his experience.

Research News from Advanced Nanomaterials Lab

Research Internship at Pusan National University, South Korea

2nd-grade students from the Biology Department of School of Science and Technology, Aiganym Abduraimova and Aidana Toleshova visited Smart BioMaterials and Regenerative Therapy (SMART) Laboratory of Prof. Dong-Wook Han at Pusan National University, South Korea. Students had a great opportunity to conduct experiments on cytotoxicity and cellular imaging tests of the nanoprobes prepared at Nazarbayev University under the supervision of Prof. Timur Atabaev. During their internship, they were trained on how to treat L-929 mouse fibroblast cells with synthesized nanoprobes. The viability of the cells incorporated with prepared nanoprobes was evaluated using the CCK-8 assay method and LDH analysis. The collaborative scientific research allowed NU students to acquire new valuable laboratory skills and to build research and academic network for future studies and scholarships. The research outcomes of this collaborative research will be disseminated on International conferences and in reputable peer-reviewed scientific journals.

American Chemical Society Student Chapter of Nazarbayev University

In April 2019, ACS student chapter of School of Science and Technology won a Chemistry Festival Grant award in the amount of $1,500 USD. ACS team plans to organize a Chemistry summer camp in Nur-Sultan city for school students from poor financial backgrounds in collaboration with Children's Development Foundation. This project has been ranked favourably by the reviewers among other 30 applications. ACS team will use entertaining methods to demonstrate hands-on experiments designed to teach chemical concepts.

Through chemistry experiments, research projects, and discussions campers will explore chemistry and science in laboratories of the Department of Chemistry at Nazarbayev. The event aims to boost campers' interest to chemistry which will provide them with an image of the future perspectives of studying chemistry major and also build research and academic network with students and faculty of Nazarbayev University.

AUTHOR: ANARA MOLKENOVA

The Library Tradition at the International Conference on Academic Integrity

Once again, two NU Librarians presented at the Conference on Academic Integrity. The annual International event was sponsored the by Higher School of Economics and Nazarbayev University on May 16, 2019, at KAZGUU. The Conference marked its 4th year and focused on the Best Practices in Promoting and Implementing Academic Integrity from Global and Regional Perspectives.

Joseph M. Yap in the presentation entitled «*Common Errors Found in APA Citation: Basis to Improve the Information Literacy Program*» shared interim results of ongoing research in tracking the errors committed by students in references and its practical application in the enhancement of Information Literacy Program at NU.

Darya Zvonareva demonstrated the findings of the challenging regional context for libraries' initiatives and the best library practices to address the issue of academic integrity. Among others, the implementation of international policies, access to plagiarism software, and capacity to promote academic ethics were also discussed. The outcome paper is «*Challenges and Prospects in Supporting Institutional Academic Integrity Through Library's Services in Central Asia Region: a Case Study from Kazakhstan*».

The presentation materials will be available in the NU Repository.

WRITTEN BY DARYA ZVONAREVA

Librarians Presented in Central Asia 2019

Three librarians presented their papers in one of the largest international library conferences in Central Asia hosted by the National Library of Uzbekistan on 24-26 April 2019. The Central Asia 2019 or the XIII International Conference on Information and Library Resources in Science, Education, Culture and Business was held in one of the historic places of the Silk Road, Urgench, Uzbekistan.

The speakers from Nazarbayev University Library were:

1) Piotr Lapo, General Library Expert talked about the current status of NU Library in terms of resources and collections. The title of his presentation is «*The Modern State of Nazarbayev University Library*».

2) Yelizaveta Kamilova, Expert-Manager (Reference Department) spoke about the ILL practices of NU Library. She also mentioned NU Library's ILL partners that provide journal articles and book chapters for items requested by the library. The title of her presentation is «*The Current Status of Interlibrary Loan and Document Delivery Service at Nazarbayev University Library*».

Joseph Yap, Yelizaveta Kamilova, & Piotr Lapo

3) Joseph Yap and Ramina Mukundan, Expert-Managers (Reference Department) shared the wonderful benefits of a Content Management System (CMS) and how it enhances the library visibility and improves user interaction. Also, CMS helps the library user find immediate answers through the integrated components such as the chat and LibGuide. The title of their paper is «*The Power of Content Management Systems: Tools and Solutions to Augment your Information Literacy and Library Programs*».

The conference had more than 300 library professionals coming from Uzbekistan, Kazakhstan, Tajikistan, Turkmenistan, Russia, Turkey, Belarus, USA, and many others.

A copy of the proceedings can be found here.
The presentations will also be available in the NU Repository.

The 8th International Conference on Emerging Global Trends in University Library Development (ICEGTULD)

Kazakhstan's biggest gathering of international librarians once again happened in Nur-Sultan City last 6-7 June 2019 at Nazarbayev University and Eurasian National University. A total of 136 participants representing 16 countries from all over the world exchanged ideas and built networking. The main aim of the conference is to address the emerging global trends in academic librarianship and how we can apply them in practice. Most of the participants came from four Central Asian countries (Kazakhstan, Kyrgyz Republic, Tajikistan, and Uzbekistan). Other attendees originated from Armenia, Belarus, China, Czech Republic, Germany, Philippies, Poland, Russia, Turkey, UAE, UK, and the USA.

This year's conference theme is "*University Library Services and Resources for Research and Innovation*." The ICEGTULD 2019 was also organized as part of the Eurasian Higher Education Leaders' Forum which is also being held yearly.

There were 16 presentations excluding those from the sponsor section. A speed-dating event was also launched to increase vendor-customer relations and provide an opportunity to interact with the conference participants. One of the highl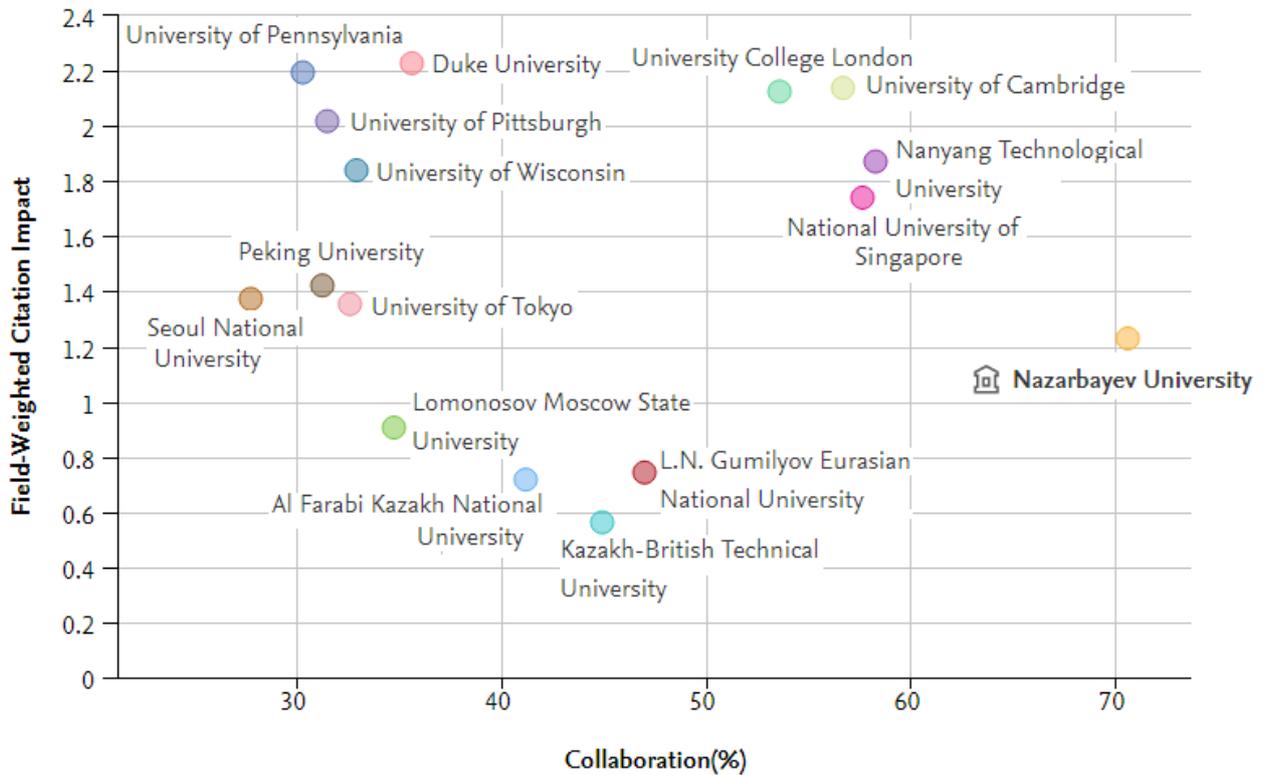ights of the conference was the keynote address of the Association of University Libraries in the Republic of Kazakhstan through its President Gulzhan Irzhanova. She reported that there are 131 operational universities in Kazakhstan and 43% of which come from the private sector. Nine universities offer library specializations and only three institutions offer Master's degrees in Library Science. The country lacks proficient experts in the field of library and information science and this needs to be addressed.

During the two-day conference, the participants learned about updates and trends in Information Literacy, Institutional Repositories and Open Access Initiatives, Digital Libraries, Library Collection Assessment and Evaluation, Library Consortia, and Accessibility for People with Disabilities.

The proceedings and book of abstracts can be accessed via this link.

WRITTEN BY JOSEPH YAP

Research Performance Evaluation using SciVal

In this issue, we are delighted to present you an overview of research activities conducted under the auspices of Nazarbayev University.

Since its inception in 2011, Nazarbayev University faculty members and researchers have released 2,817 peer-reviewed publications indexed by Scopus, and have been cited 12,332 times for 2011-2019 period (Source: Scopus, June 24). The approximate number of citations per peer-reviewed publication is 4.38. The overall H-index of NU is 38, whereas H5-index is 28. The field-weighted citation impact is 1.23, meaning that our publications have been cited 23% more than would be expected based on the world average for similar publications.

For getting more comprehensive information on the research performance at NU, please have a look at the following presentation prepared using SciVal research evaluation platform.

If you have any questions regarding the provided information, please contact Saule Sadykova (ssadykova@nu.edu.kz)

Funding Institutional

Gain a competitive edge
with funding insights, discovery & decisions

Dear NU Community,

We would like to remind you that we have a subscription for Funding Institutional software that anyone affiliated with Nazarbayev University can use to search for external grants from government and private funding organizations.

Funding Institutional - is a search tool for funding opportunities, awarded grants and funder profiles.
You can search grants by:
- **Your research discipline**
- **Grant type** (research, travel grant, training etc.)
- **Eligibility requirements:**
  > experienced researchers
  > young professionals
  > grad and undergrad students

We have made a sample list of external grants for each school that might be of your interest. Nevertheless, we encourage you to access the system and make your own search, as our list is not specific to your research area.

GSB   GSE   GSPP   SST   SENG   SHSS   SMG   NUSOM

HOW TO USE?

- Anyone with our corporate email (@nu.edu.kz) has an opportunity to use Funding Institutional.
- Just go to https://www.fundinginstitutional.com
- The user interface of FI is pretty intuitive. If you get stuck at some point, refer to the user manual that is available via this link.

NOTE: If you are **outside the campus**, follow these steps to access the system:

1. Go to https://nu.kz.libguides.com/az.php?a=f
2. Click on Funding institutional
3. Enter your login and password (a.k.a. your name.surname and password you use to log in to your computer or directum or my.nu.edu.kz)
4. Enter your Funding institutional login and password (a.k.a. your e-mail and password you have registered with on Scopus/SciVal/Funding Institutional)

If you have any questions, please contact Saule Sadykova (ssadykova@nu.edu.kz)

New publications indexed by Scopus

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