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Funding

This research did not receive any specific grant from funding agencies in the public, commercial, or not-for-profit sectors.

Disclaimer

The funder had no role in the study design, data collection and analysis, decision to publish, or preparation of the manuscript.

Contributors

The author contributed solely to the intellectual discussion underlying this paper, case-law exploration, writing and editing, and accept responsibility for the content and interpretation.

Declaration of Competing Interest

The author declare that they have no conflict of interest.

DOI: <https://doi.org/10.32353/acfs.3.2021.02>

UDC 343. 98

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International Research Cooperation is Effective Mechanism for Forensic Science Improvement

The article reveals the content of international research cooperation of forensic science institutions of Ukraine and the world. It is concluded that improvement of forensic science activity in Ukraine and international cooperation in the field of forensic science support of justice is one of the leading activities of National Scientific Center «Hon. Prof. M. S. Bokarius of the Ministry of Justice of Ukraine. The international agreements/memoranda with the partner institutions of NSC « Hon. Prof. M. S. Bokarius FSI» are indicated, in which provisions main strategic directions of research cooperation in the field of forensic science and criminalistics are determined.

Keywords: international research cooperation, forensic science activity, forensic science, forensic science institutions.

Introduction. State specialized forensic science institutions have the right to establish international research relations with their homologs of other states, hold joint scientific conferences, symposia, seminars, exchange trainees, scientific information and publications and to publish joint editions in the field of forensic science and criminalistics¹.

One of the main working areas of forensic science institutions of Ukraine is compliance with European standards for forensic examinations and researches. That is why the current trend at the present stage is to expand the participation of forensic science institutions in international cooperation, increase their role in further development of the theory and practice of forensic science and criminalistics. Further effective integration development of forensic science institutions in the field of forensic science of countries around the world is facilitated not only by accumulated experience of legal regulation of forensic science activities but implementation of promising approaches to new types of forensic examinations and modern forms of international cooperation taking into account up-to-date scientific opinions and theories.

Analysis of publications where this problem solution is initiated. The issues of improving forensic activity in Ukraine and international cooperation in the field of forensic science support of justice were considered by such domestic researchers as: V. Halunko, L. Holovchenko, I. Hora L. Derecha, V. Zhuravel, O. Kliuiev, O. Lopata, I. Petrova, I. Pyrih, Ella Simakova-Yefremian, O. Uhrovetskyi, G. Strilets, V. Shepitko, M. Shepitko, M. Shcherbakovskyi².

¹ Про судову експертизу : Закон України від 25.02.1994 р. № 4038-XII (зі змін. та допов.). Відомості Верховної Ради України (ВВР). 1994. № 28. Ст. 232.

² Див, наприклад: Ключев О. М. До питання міжнародного співробітництва в галузі судової експертизи. Теорія та практика судової експертизи і криміналістики : зб. наук. пр. Харків : Право, 2018. Вип. 18. С. 154–162. DOI: <https://doi.org/10.32353/khrife.2018.17> (дата звернення: 18.05.2021); Сімакова-Єфреміан Е. Б., Дереча Л. М. та М'ясоєдов В. В. Актуальні проблеми співробітництва з організаціями іноземних держав у сфері судово-експертної



О. М. Ключев

**МІЖНАРОДНЕ НАУКОВЕ
СПІВРОБІТНИЦТВО -
ЕФЕКТИВНИЙ МЕХАНІЗМ
УДОСКОНАЛЕННЯ СУДОВО-
ЕКСПЕРТНОЇ ДІЯЛЬНОСТІ**

У статті розкрито зміст міжнародного наукового співробітництва судово-експертних установ України та країн світу. Одним з основних напрямів роботи судово-експертних установ України є дотримання європейських стандартів здійснення судових експертиз й експертних досліджень. Саме тому актуальною тенденцією на сучасному етапі є розширення участі судово-експертних установ у міжнародному співробітництві, посилення їхньої ролі в подальшому розвитку теорії та практики криміналістики й судової експертизи. Констатовано, що вдосконалення судово-експертної діяльності в Україні та міжнародного співробітництва у сфері експертного забезпечення правосуддя є одним із провідних напрямів діяльності Національного наукового центру «Інститут судових експертиз ім. Засл. проф. М. С. Бокаріуса» Міністерства юстиції України.

Зазначені міжнародні договори / меморандуми з установами-партнерами ННЦ ІСЕ, у положеннях яких визначені основні стратегічні напрями наукової співпраці в галузі судової експертизи та криміналістики. Підсумовано, що фундаментальні наукові дослідження проблемних аспектів судово-експертної практики, використання найновіших і передових наукоємних технологій при(під час) проведення судових експертиз та експертних досліджень є запорукою підвищення ефективності діяльності судово-експертних установ України, і це в недалекому майбутньому відкриє нові горизонти для розвитку судової експертизи й криміналістики.

Ключові слова: міжнародне наукове співробітництво, судово-експертна діяльність, судова експертиза, судово-експертні установи.

O. Kluiev

**INTERNATIONAL RESEARCH
COOPERATION IS EFFECTIVE
MECHANISM FOR FORENSIC
SCIENCE IMPROVEMENT**

The article reveals the content of international research cooperation of science forensic institutions of Ukraine other countries across the world. One of the main areas of

K. Palkova, J. Grasis and A. Zile made a significant contribution to improving basics of forensic and international activities. Issues of international activity in the field of forensic science, as well as creation and functioning of international forensic science institutions were studied by such well-known scientists as: O. Vynohradova, T. Havrysh, I. Lieshukova, P. Nazarenko, M. Pashkovskiy, Yu. Chornous and etc.

Results and discussion. International research cooperation is one of the most effective means of improving efficiency of forensic science through joint measures provided by international agreements. In addition, international scientific cooperation is a means of entering new markets and technological areas, so the role of the state in implementation and development of this process is quite important. In Ukraine, intensification and improvement issue of innovation and its further development has been urgent for many years. The advantage of international research cooperation is that it is key in the system of public policy. Ukraine has a strong scientific and technical potential, thanks to which we should move to international market and ensure economic growth of our country.

At the same time, the analysis of previous activity results of forensic science institutions requires a coordinated and holistic understanding essence, significance and prospects of forensic activities in modern conditions. Given rapid development of forensic science, there is an objective need for theoretical understanding and detailed analysis of new forms of activity in this area.

On August 28, 2020, the President of Ukraine signed Decree № 366/2020: *On awarding the status of National Scientific Center to Hon. Prof. M. S. Bokarius Kharkiv Research Institute of Forensic Examinations of the Ministry of Justice of Ukraine*³.

Significant intellectual potential of National Scientific Center «Hon. Prof. M. S. Bokarius Forensic Science Institute» (hereinafter referred to as Center), its unique research capabilities and talented staff allow us to focus on priority areas of research in the field of forensic science and criminalistics. Thanks to continuous development, active research, high-quality forensic examinations, fruitful international cooperation, the Center reaches new heights every year and gaining a new status has become another step up and motivation for new achievements.

According to the Statute, the Center is a state specialized scientific institution belonging to the Ministry of Justice of Ukraine and in accordance with legislation of Ukraine carries out research, forensic, managerial and educational activities in the field of forensic science, criminalistics and law. The purpose of the Center activities is to meet the needs of pre-trial investigation bodies, judicial and other state bodies, as well as legal entities and individuals in independent, qualified and objective expertise focused on application of state-of-the-art technology.

Over past five years, the Center has become a powerful center of science, strengthened its human and technological potential, improved the professional skills of its staff and reached European level of research papers and forensic examinations. The Center leadership has chosen a basic activity direction and research cooperation aimed at improving forensic science, borrowing international experience of forensic examinations and researches taking into account state-of-the-art technology and thus concluding international association agreements with countries across the world.

The list of agreements will be provided in the table below.

діяльності. Теорія та практика судової експертизи і криміналістики : зб. наук. пр. Харків : Право, 2018. Вип. 18. С. 175–184. DOI: <https://doi.org/10.32353/khrifle.2018.19> (дата звернення: 18.05.2021).

³ Про надання Харківському науково-дослідному інституту судових експертиз ім. Засл. проф. М. С. Бокаріуса Міністерства юстиції України статусу національного наукового центру : Указ Президента України від 28.08.2020 р. № 366/2020. URL: <https://www.president.gov.ua/documents/3662020-34881> (дата звернення: 18.05.2021).

work of forensic science institutions of Ukraine is compliance with European standards for forensic examinations and forensic researches. Because of this current trend at the present stage is to expand participation of forensic science institutions in international cooperation, increase their role in the further development of theory and practice of forensic science and criminalistics. It is concluded that improvement of forensic activity in Ukraine and international cooperation in the field of expert support of justice is one of the leading activities of National Scientific Center «Hon. Prof. M. S. Bokarius Forensic Science Institute» of the Ministry of Justice of Ukraine.

The international agreements/memoranda with the partner institutions of NSC «Hon. Prof. M. S. Bokarius FSI» are indicated, in which provisions the main strategic directions of research cooperation in the field of forensic science and criminalistics are determined. It is concluded that in-depth research of problematic aspects of forensic practice, use of the latest and most advanced technology in conducting forensic examinations and forensic researches is the guarantee for to improving efficiency of forensic science institutions of Ukraine and in the near future will open new horizons for forensic science and criminalistics.

Keywords: international research cooperation, forensic science activity, forensic science, forensic science institutions.

O. Kliuiev

INTERNATIONALE WISSENSCHAFTLICHE ZUSAMMENARBEIT - EIN EFFEKTIVER MECHANISMUS ZUR VERBESSERUNG DER FORENSISCHEN TÄTIGKEIT

Der Artikel setzt den Inhalt der internationalen wissenschaftlichen Zusammenarbeit der forensischen Einrichtungen der Ukraine und der Welt auseinander. Einer der Hauptarbeitsbereiche der forensischen Institutionen der Ukraine ist die Einhaltung der europäischen Standards für forensische Expertisen und Expertenuntersuchungen. Daher ist der aktuelle Trend heutzutage die Erweiterung der Beteiligung forensischer Einrichtungen an der internationalen Zusammenarbeit, die Steigerung ihrer Rolle bei der

Table 1

No	Date of Agreement Concluding	Name of Institution that concluded association agreement	Agreement Effective Period (Effective Period)
1	08.12.2017	Centrul Național de Expertize Judiciare (Director: Olga Cataraga)	Open-Ended Agreement
2	30.03.2018	National Bureau of Expertises: State Non-Profit Organization of the National Academy of Sciences of the Republic of Armenia: (Director: Argam Hovsepyan)	Open-Ended Agreement
3	20.04.2018	State Institution Scientific and Practical Center of the State Forensic Examination Committee of the Republic of Belarus (Director: Vadim Poznyak)	5 years (shall remain in force until 20.04.2023)
4	20.06.2018	RSE «Forensic Examinations Center» of the Ministry of Justice of the Republic of Kazakhstan (Director: Rakhmetulla Nugmanov, Deputy Director for Scientific Issues: Bakytkul A. Zhumanbayeva)	Open-Ended Agreement
5	10.10.2018	Forensic Science Centre of Lithuania of Ministry of Justice of Lithuania (Director: Giedrius Mozuraitis)	5 years (shall remain in force until 10.10.2023)
6	10.10.2018	Central Forensic Laboratory of the Police (Poland) (Director: Radoslaw Juzwiak, Deputy Director: Krzysztof Borkowski)	5 years (shall remain in force until 10.10.2023)
7	10.10.2018	Prof. dr. Jan Sehn Institute of Forensic Research in Krakow Ministry of Justice Republic of Poland (Director: Dariusz Zuba)	3 years (shall remain in force until 10.10.2023)
8	10.10.2018	National Institute of Forensic Expertise of Romania (Director: Grigoras Betiu)	Open-Ended Agreement
9	19.02.2019	Law Institute of Lithuania (Head of the Institute: Ingrida Mačernytė-Panomariovienė)	5 years (shall remain in force until 19.02.2024)
10	24.06.2019	Forensic Center Police Directorate of Montenegro (Director: Aleksandar Ivanović)	5 years (shall remain in force until 24.06.2024)
11	16.10.2019	Forensic-Criminalistic Department of the Ministry of Internal Affairs of Georgia (Director: Sergo Dzagnidze)	5 years (shall remain in force until 16.10.2024)
12	29.10.2019	Mykolas Romeris University (Lithuania) (Rector: Inga Žalėnienė)	5 years (shall remain in force until 29.10.2024)
13	01.07.2020	State Forensic Science Bureau of the Republic of Latvia (Director: Maira Centoricka)	5 years (shall remain in force until 01.07.2025)
14	08.12.2020	Riga Stradiņš University (RSU) (Rector: Aigars Pētersons)	5 years (shall remain in force until 08.12.2025)
15	24.12.2020	Director of the Republican Forensic Examination Center named after H. Sulaymanova under the Ministry of Justice Uzbekistan (Director: Akram Khalilov)	5 years (shall remain in force until 24.12.2025)

The main directions of international research cooperation in the field of forensic science and criminalistics are as follows:

- more active introduction and application of modern innovative technologies and equipment for forensic examinations and research,



increasing authority of forensic science institutions of Ukraine in the country and abroad and in establishing effective relations with experienced and progressive institutions of the European Union (hereinafter referred to as EU);

- creating joint research projects and maintaining close relations to address issues and problems that arise on the way to implementation of international research cooperation, development of domestic science and raising to a new level of forensic science and criminalistics taking into account state-of-the-art technology;
- participation in international research programs, grants of various levels, framework programs;
- cooperation with prominent scientists of the world (thanks to international foundations operating in the country, or through relevant research programs of international institutions);
- Involvement of scientists in implementation of cooperation programs in the field of forensic science, criminalistics and coordination of domestic and foreign university and academic science to establish more global relations;
- application of perspective and far-sighted methods of cooperation (intensification of internships abroad for PhD students, forensic experts and other researchers of forensic science institutions of Ukraine, development on the basis of their knowledge, skills and abilities of modern and necessary and effective mechanisms for joint research programs; joint scientific conferences, symposia, workshops, preparation of joint research papers and textbooks, development of joint research projects in activities of forensic science institutions, foreign practice of researchers, opportunities to publish scientific papers abroad and joint research papers with international partners in Ukraine, coverage of state-of-the-art developments, ideas, scientific concepts in joint scientific articles with their placement in Scopus and Web of Science abstract and citation databases);
- Research and methodological support of forensic science activity is one of the types of forensic science which aim is to create appropriate conditions for the introduction of the latest advances in science and technology in forensic practice and includes development and improvement of methodological materials for forensic examinations and researches;
- development and preparation of modern European programs of professional training of forensic experts taking into account international experience and the needs of modern world practice.

Thus, implementation of European standards in activities of forensic science institutions of Ukraine is an extremely promising area of forensic science development. Unification of methods of domestic forensic researches with methods of European countries that have been tested at international level, in case of real possibility of their qualitative adaptation to Ukrainian legislation will ensure the expansion of international cooperation in research at the stage of European integration processes in our country. The largest and most developed is European Network of Forensic Science Institutes (ENFSI). It was founded in 1995 to improve the exchange of information in the field of forensic science, as well as to improve the quality of forensic science in the world. ENFSI has been recognized by the European Commission as one of the leading organizations in the field of forensic science. It is the worldwide international organization of forensic experts with international recognition. Joining ENFSI by as many forensic institutions of Ukraine as possible (except those that are already permanent members) opens "new horizons" of fruitful cooperation in this area. After all, national forensic science cannot exist in isolation, i.e. within a single state. It will not actively perform its functions of

Weiterentwicklung von Theorie und Praxis der Kriminalistik und Forensik. Es wird einen Schluss gezogen, dass die Verbesserung der forensischen Tätigkeit in der Ukraine und der internationalen Zusammenarbeit in der Expertensicherstellung der Justiz ein der Haupttätigkeitsbereiche des Nationalen Wissenschaftlichen Zentrums «Ehrenprofessor-M.-S.-Bokarius-Institut für Forensik» des Justizministeriums der Ukraine ist.

Die internationalen Verträge / Memoranden mit den Partnereinrichtungen des Nationalen Wissenschaftlichen Zentrums «Ehrenprofessor-M.-S.-Bokarius-Institut für Forensik», in deren Bestimmungen die wesentlichen strategischen Ausrichtungen der wissenschaftlichen Zusammenarbeit im Bereich der Forensik und Kriminalistik festgelegt sind. Es wird einen Schluss gezogen, dass die gründliche Erforschung problematischer Aspekte der forensischen Praxis und der Einsatz der neuesten und fortschrittlichsten wissenschaftlichen Technologien bei der Durchführung der forensischen Expertisen und Expertenuntersuchungen der Schlüssel zur Verbesserung der Effizienz der forensischen Einrichtungen der Ukraine sind und in naher Zukunft neue Horizonte für die Entwicklung der Forensik und Kriminologie eröffnen werden.

Schlüsselwörter: internationale wissenschaftliche Zusammenarbeit, forensische Tätigkeit, Forensik, forensische Einrichtungen.

O. Kliuiev

LA COOPÉRATION SCIENTIFIQUE INTERNATIONALE EST UN MÉCANISME EFFICACE POUR AMÉLIORATION DE EXPERTISE JUDICIAIRE

L'article révèle le contenu de la coopération scientifique internationale des institutions d'expertise judiciaire de l'Ukraine et du monde. L'un des principaux domaines de travail des institutions d'expertise judiciaire de l'Ukraine est le respect des normes européennes en matière d'expertise judiciaire et de recherche d'experts. C'est pourquoi la tendance actuelle au stade actuel est d'élargir la participation des institutions d'expertise judiciaire à la coopération internationale, d'accroître leur rôle dans le développement ultérieur de la théorie et de la pratique de l'expertise judiciaire et de la criminalistique. Il est conclu que



l'amélioration de l'activité dans le domaine d'expertise judiciaire en Ukraine et la coopération internationale dans le domaine de l'assistance d'experts judiciaires à la justice est l'une des principales activités du Centre national de la recherche scientifique « Institut d'expertise judiciaire professeur émérite M. S. Bokarius » du Ministère de la Justice de l'Ukraine.

Les accords/mémoires d'entente internationaux avec les institutions partenaires du Centre national de la recherche scientifique « Institut d'expertise judiciaire professeur émérite M. S. Bokarius » sont indiqués, dans lesquels les principales orientations stratégiques de la coopération scientifique dans le domaine de l'expertise judiciaire et de la criminalistique sont déterminées. Il est conclu qu'une recherche approfondie sur les aspects problématiques de la pratique d'expertise judiciaire, l'utilisation des technologies les plus récentes et les plus avancées dans la réalisation des expertises et la recherche judiciaires sont le gage pour améliorer l'efficacité des institutions d'expertise judiciaire de l'Ukraine et ouvriront dans un proche avenir de nouveaux horizons pour l'expertise judiciaire et la criminalistique.

Mots-clés: coopération scientifique internationale, activité dans le domaine d'expertise judiciaire, expertise judiciaire, institutions d'expertise judiciaire.

A. Н. Ключев

МЕЖДУНАРОДНОЕ НАУЧНОЕ СОТРУДНИЧЕСТВО - ЭФФЕКТИВНЫЙ МЕХАНИЗМ СОВЕРШЕНСТВОВАНИЯ СУДЕБНО-ЭКСПЕРТНОЙ ДЕЯТЕЛЬНОСТИ

В статье раскрыто содержание международного научного сотрудничества судебно-экспертных учреждений Украины и стран мира. Одним из основных направлений работы судебно-экспертных учреждений Украины является соблюдение европейских стандартов осуществления судебных экспертиз и экспертных исследований. Именно поэтому актуальной тенденцией на современном этапе является расширение участия судебно-экспертных учреждений в международном сотрудничестве, усиление их роли в дальнейшем развитии теории и практики криминалистики и судебной

ensuring law enforcement activities outside of integration with international community.

In-depth research on problematic aspects of forensic practice, the use of state-of-the-art technologies in forensic sciences and researches is the key to improving efficiency of forensic science institutions in Ukraine and in the near future will open new horizons for forensic science and criminalistics.

At the same time, the problem is the lack of general funding for international research activities. Adequate level of funding could have a positive impact on the image and quality of forensic examinations and researches in our country and abroad.

Conclusions. In order to improve interaction of forensic science institutions of Ukraine with partner institutions of the world, establish effective bilateral and multilateral relations in the field of forensic science and criminalistics, introduce advanced achievements of science and technology while forensic examinations and researches, attract the best research experience around the world it is necessary to develop dynamically from the inside, while it there is a need to focus on international cooperation in the field of science and technology. In the future increasing state funding for forensic science should be a priority.

At the present stage of Ukrainian integration into the European space, many new opportunities arise (in particular, in the field of research cooperation), so it is objective to strengthen the position of the Ukrainian system of forensic science institutions by providing measures to increase funding for research. Currently rapprochement between Ukraine and the EU is underway, new relations are being established. Thus new opportunities for cooperation with more developed countries are opening up. This applies not only to the experience exchange, research cooperation, deepening study of existing areas and expanding the range of new ones but solving current problems of forensic science and criminalistics, creating modern methods of forensic examinations and researches, advanced training for staff of forensic institutions of Ukraine, etc.

Given the above, an important step that will strengthen cooperation between ENFSI members, forensic science institutions between which bilateral cooperation agreements have been concluded is development and implementation of a modern Strategy for development of international cooperation in forensic science for the next 5 years that should become the basis for long-term planning of work on international cooperation, improvement of forensic science and improving forensic science quality as one of the main forms of using specific expertise in legal proceedings.

The staff of National Scientific Center «Hon. Prof. M. S. Bokarius Forensic Science Institute» of the Ministry of Justice of Ukraine is always happy for new cooperation that will help stimulate innovation and solve problems that arise in the fields of forensic science and criminalistics.

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Pro nadannya Kharkivs'komu naukovu-doslidnomu instytutu sudovykh ekspertyz im. Zasl. prof. M. S. Bokariusa Ministerstva yustytysi Ukrainy statusu natsional'noho naukovoho tsentru (Eng. On awarding the status of National Scientific Center Kharkiv Research Institute to Hon. Prof. M. S. Bokarius Kharkiv Research Institute of Forensic Examinations): Ukaz Prezidenta Ukrainy vid 28.08.2020 r. № 366/2020.

URL: <https://www.president.gov.ua/documents/3662020-34881> [in Ukrainian].

експертизы. Констатировано, что совершенствование судебно-экспертной деятельности в Украине и международного сотрудничества в сфере экспертного обеспечения правосудия является одним из ведущих направлений деятельности Национального научного центра «Институт судебных экспертиз им. Засл. проф. Н. С. Бокариуса» Министерства юстиции Украины.

Указаны международные договоры / меморандумы с учреждениями-партнерами ННЦ ИСЭ, в положениях которых определены основные



Meeting of the Working Group of the European Network of Institutes of Forensic Expertise (ENFSI) on the study of drugs (DWG)

стратегические направления научного сотрудничества в области судебно-экспертизы и криминалистики. Подытожено, что фундаментальные научные исследования проблемных аспектов судебно-экспертной практики, использование новейших и передовых наукоемких технологий при проведении судебных экспертиз и экспертных исследований является залогом повышения эффективности деятельности судебно-экспертных учреждений Украины, и это в скором будущем откроет новые горизонты для

Received by Editorial Board: 22.05.2021

Suggested Citation:

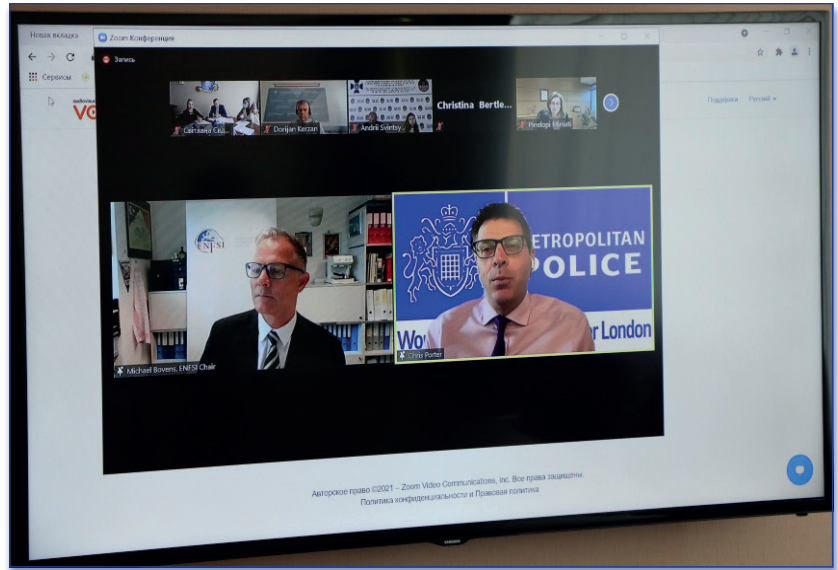
Kliuiev, O. (2021). International Research Cooperation is Effective Mechanism for Forensic Science Improvement. *Archives of Criminology and Forensic Sciences*. 1(3). 32-37. DOI: <https://doi.org/10.32353/acfs.3.2021.02>.



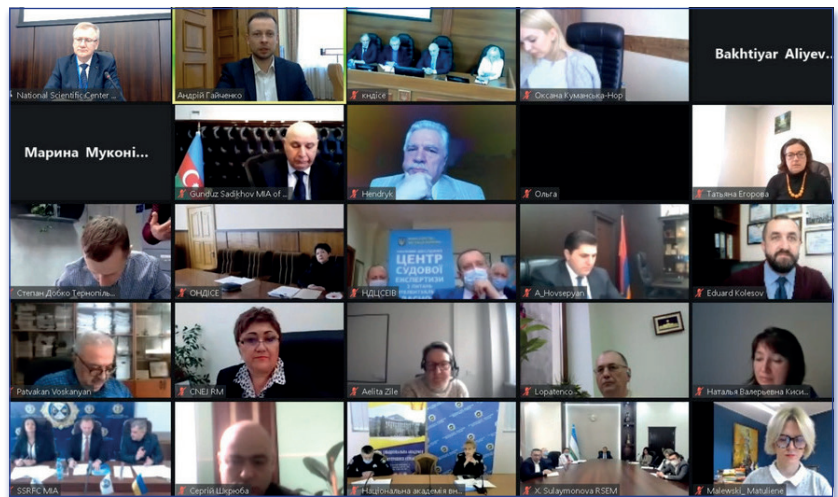
развития судебной экспертизы и криминалистики.

Ключевые слова: международное сотрудничество, экспертная деятельность, судебная экспертиза, судебно-экспертные учреждения.

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Annual Meeting of the European Network for Forensic Expert Facilities (ENFSI)



International Scientific and Practical Conference-Poly Policial «Actual Issues of Forensic Expertise and Criminalistics», April 15-16, 2021