

# Railway Safety in Great Britain

How Great Britain arrived at its current level of safety for passengers and the workforce.

16 & 23 May 2025 (online)

ABATIS Safety Services Ltd

## Участники (8)

Найти участника

Л	Лапшин Олександр Криворі... (Я)	✖	▢
ОХОРОНА ПРАЦІ	Охорона Праці (Організатор)	✖	▢
ABATIS	ABATIS (Соорганізатор)	▢	▢
ОХОРОНА ПРАЦІ	Охорона Праці (Соорганізатор)	✖	▢
E	ESOSH OFFICE	▢	▢
V	Valentyna.Zabelina	✖	▢
О	Оксана Станіславчук	✖	▢
O	Олег Кисловский	✖	▢

# Railway Safety in Great Britain

**Keith Atkinson**

Formerly His Majesty's Assistant Chief Inspector of Railways with HM Railway Inspectorate,



London Underground



London Overground



Docklands Light Railway

# Railway Safety in Great Britain

**Keith Atkinson**

Formerly His Majesty's Assistant Chief Inspector of Railways with HM Railway Inspectorate,



London Underground



Crossrail Project  
(Elizabeth Line)



London Overground



Docklands Light Railway

Heathrow  
Airport



Gatwick  
Airport



Stansted  
Airport



Glasgow SPT  
Subway renewal

zoom Workplace Конференция Экран (ABATIS) ВХОД Запись Звук оригинала для музыки

Идет запись этой конференции

Лапшин Олександр Кривохвиль, ABATIS ESOSH OFFICE Охорона Праці Оксана Станіславівськ, ABATIS Safety Services Ltd Valentina Zabelina

OK

OK

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Goal-setting Principles for Railway Health and Safety : Additional factors to be considered for unattended passenger train operation (GOA4)  
<https://www.orr.gov.uk/sites/default/files/2024-07/railway-safety-principles-factors-for-safe-operation-of-goa4-uto.pdf>

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# Railway Safety in Great Britain



## Aim of the sessions

To share my 25 years experience as HM Inspector of Railways and examine how Great Britain went from having a railway with a poor safety record to being one of the safest railways in the world.

### 2 important points :

- I fully acknowledge the extremely difficult times Ukraine is currently experiencing;
- I will not be promoting the 'British way' as the 'best way', but I will try and show what has worked in GB (and in some cases what hasn't worked !);

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## Мета занять

Поділитися своїм 25-річним досвідом роботи інспектором залізниць Її Величності та дослідити, як Велика Британія пройшла шлях від залізниці з поганим рівнем безпеки до однієї з найбезпечніших залізниць у світі.

## 2 важливі моменти:

- Я повністю усвідомлюю надзвичайно складні часи, які зараз переживає Україна;
- Я не буду просувати «британський шлях» як «найкращий шлях», але я спробую показати, що спрацювало у Великій Британії (а в деяких випадках і те, що не спрацювало!);

# British Isles



Британські острови

# Railway Safety in Great Britain



**Objectives** .....What the sessions will cover :

## **This session** .....

- A very brief history of Great Britain's railways.. (why the railway in GB is like it is)
- The role of accident investigation..... (the impact of accident investigation over 200 Years)
- The role of railway 'approvals' by government
- The introduction of the EU "Railway Safety Directive" and the EU "Interoperability directive":

## **Next session**.....

- Great Britain's implementation of the EU 'Railway Safety Directive'
- The significance of the 'Safety Management System'
- Railway Safety Inspection ( by the Office of Rail and Road )
- Railway Accident Investigation ( by the Rail Accident Investigation Branch)

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# Railway Safety in Great Britain



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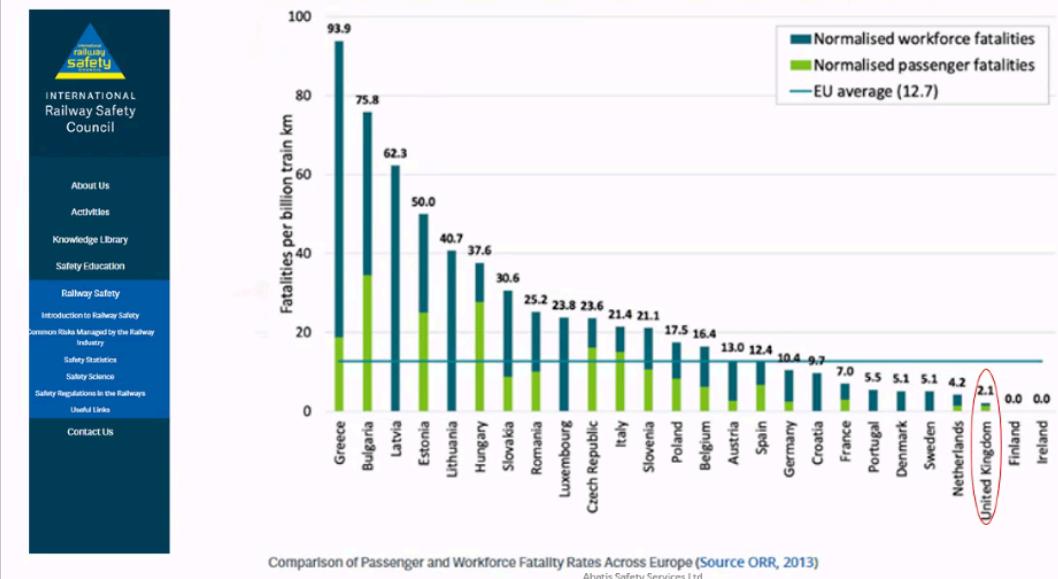
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# Railway Safety in Great Britain

Where does GB stand today in terms of railway safety today ?



6

Идет запись этой конференции

Лапшин Олександр Криворізьк... ABATIS

Охорона Праці

Valentyna.Zabelina

Anatolii Aleksieiev

Оксана Станіславчук

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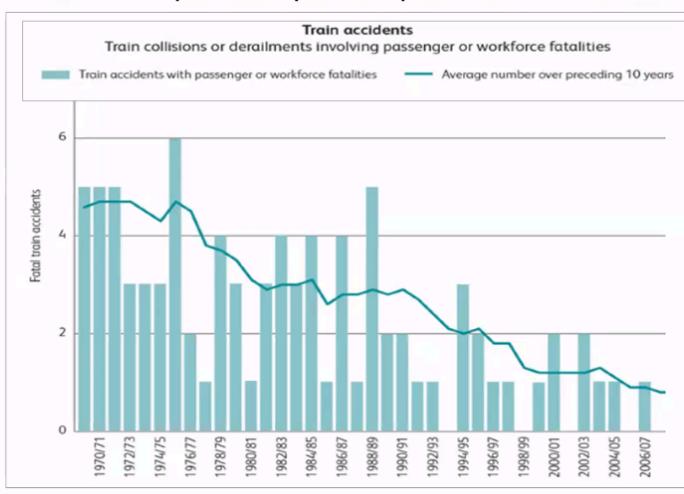
Оксана Станіславчук

# Railway Safety in Great Britain

It was not always such a positive picture

GB Train accidents 1970 – 2007

Only 4 / 37 years when GB did not have a fatal train crash !!!



7

## Участники (23)



🔍 Найти участника

**Л** Лапшин Олександр Криво... (Я) ✅

**ОХОРОНА ПРАЦІ** Охорона П... (Организатор) ✅ ✅

**ОХОРОНА ПРАЦІ** ABATIS (Соорганизатор) ✅ ✅

**ОХОРОНА ПРАЦІ** Охорона... (Соорганизатор) ✅ ✅

Alan Plom ✅

**A** Alona ✅

**AA** Anatolii Aleksieiev ✅

**D** Dmytro ✅

Galyna Kryvenko ✅

**N** Nataliia ✅

**ОК** Oleksandr Kyrychok ✅

**V** Valentyna.Zabelina ✅

**V** Viktoriia ✅

**А** Андрій Свиридко ✅

**Є** Євген ✅

**Ж** Жуковський Андрій ✅

Оксана Станіславчук ✅

**О** Олег Кисловский ✅

**О** Олена ✅

**О** Ольга Лаврентьева ✅

Світлана Колодезна ✅

Пригласить

Включить свой звук

## Участники (17)



Q Найти участника

Л Лапшин Олександр Криворі... (Я) ✎ ⚡

Охорона Пр... (Організатор) ☁ ✎ ⚡

ABATIS (Соординатор) ⚡ ☁ ✎

Охорона ... (Соординатор) ☁ ✎ ⚡

Alan Plom ✎ ⚡

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Світлана Колодезна ✎ ⚡

Я Ярош Юлія ✎ ⚡

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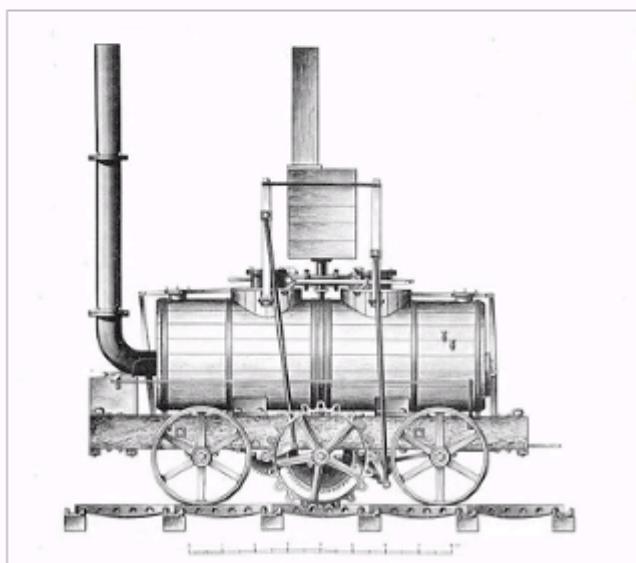


GB Train accidents  
1970 – 2007

Only 4 / 37 years  
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## Railway Safety in Great Britain

The first commercially successful steam locomotive was *Salamanca* built in 1812 by John Blenkinsop and Matthew Murray for the 4 ft (1,219 mm) gauge Middleton Railway\* in Leeds.



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Идет запись этой конференции

Олександр Криворізький, ABATIS

Охорона Праці

Valentyna Zabelina

Anatolii Aleksieiev

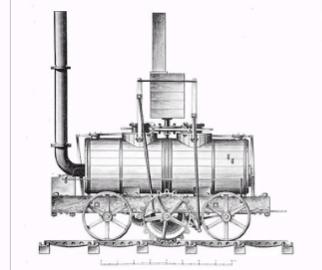
Оксана Станіславчук

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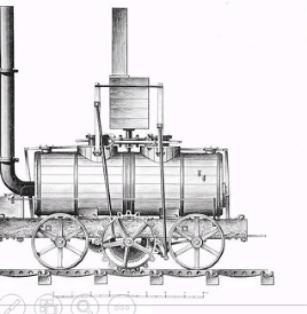


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## Railway Safety in Great Britain

The first commercially successful steam locomotive was *Salamanca* built in 1812 by John Blenkinsop and Matthew Murray for the 4 ft (1,219 mm) gauge Middleton Railway\* in Leeds.



\* Still operating as a heritage railway



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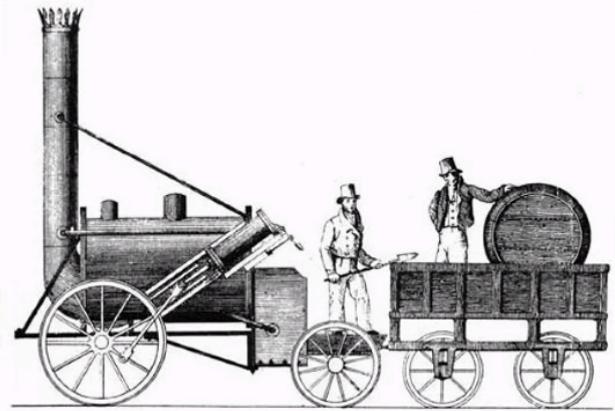
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## Railway Safety in Great Britain

In 1829 Stephenson's Rocket won, the Rainhill Trials held by the Liverpool & Manchester Railway.

15 September 1830 the first commercial passenger service commenced between the GB cities of Liverpool and Manchester.

Today (2025) trains still run on the same track route that was laid down in 1829-1830.



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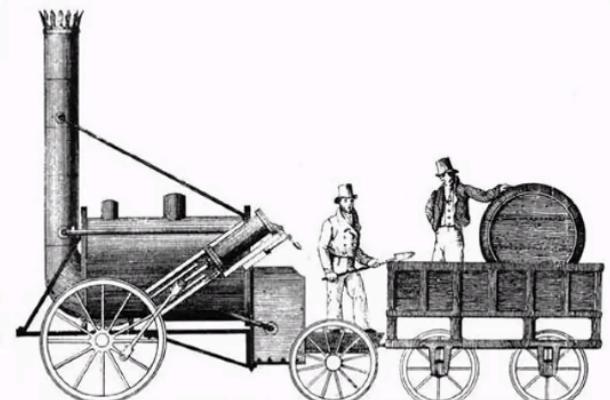
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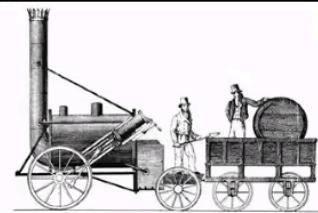


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## Railway Safety in Great Britain

Today (2025) train still run on the same track route that was laid down in 1829-1830.



The track runs across 'Chat Moss' and today still floats on the wooden & stone hurdles laid down in 1829/30.

It supports engines 25 times the weight of the steam-driven Rocket, the first train over the Moss in January 1830.

**N.B. Great Britain's railway routes are old**

.....very old !

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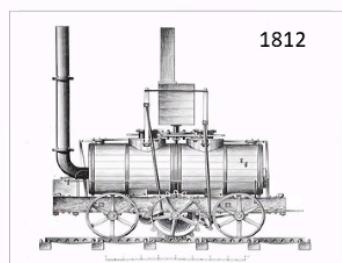
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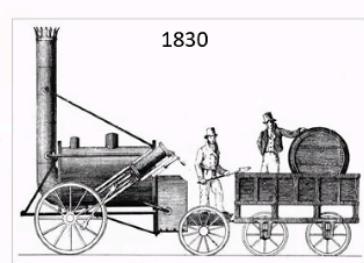




## Railway Safety in Great Britain



18 years



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ОХОРОНА ПРАЦІ

Охорона Праці

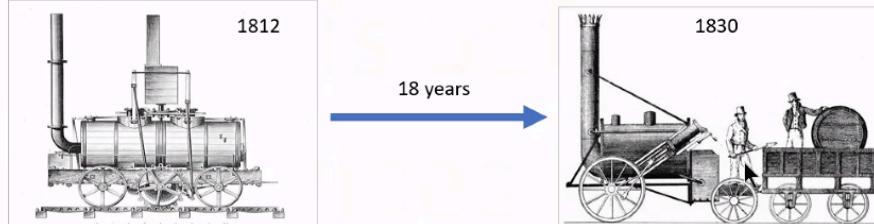
Anatolii Aleksieiev

Оксана Станіславчук

Олег Кислов

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## Railway Safety in Great Britain



1812

1830

18 years

Конференция

Экран (ABATIS)

Идет запись этой конференции

ОХОРОНА ПРАЦІ

Охорона Праці

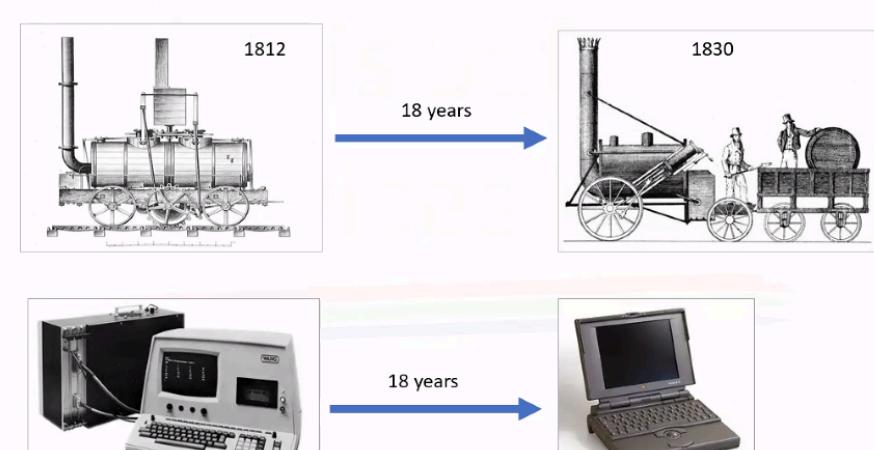
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Оксана Станіславчук

Олег Кислов

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## Railway Safety in Great Britain



1812

1830

18 years

1973 – the Wang 2200

1990 Apple Powerbook laptop

18 years

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Идет запись этой конференции

ОХОРОНА ПРАЦІ

ОХОРОНА ПРАЦІ

Анатолій Алексієв

Оксана Станіславчук

Олег Кисловський

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## Railway Safety in Great Britain

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Growth of railways 1825 1835 1840 1845 1848 1855

1835

Approx 500Km of track

The most significant newcomer is the Liverpool and Manchester Railway, opened in 1830. The appearance of this map is deceptive, for following the Liverpool and Manchester Railway's success many more lines are planned, or under construction but unfinished.

Time Line 1778 - 1855

1778 1825 1835 1840 1845 1848 1855

12

## Railway Safety in Great Britain

ABATIS Safety Services Ltd

Growth of railways 1825 1835 1840 1845 1848 1855

1855 the GB train network as we recognise it today is established

Approx 13,350 Km of track

The results of the 'railway mania' are seen with the completion of many new competing routes. One of these is the east coast route to Scotland. Much of the enduring railway system in England and Wales is now in place.

Time Line 1778 - 1855

1778 1825 1835 1840 1845 1848 1855

13

Участники (25)

Найти участника

Л	Лапшин Олександр Криво... (Я)	✖️	▢
ОХОРОНА ПРАЦІ	Охорона П... (Организатор)	▢	✖️
ABATIS	ABATIS (Соорганизатор)	▢	▢
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Alan Plom	Alan Plom	✖️	▢
A	Alona	✖️	▢
AA	Anatolii Aleksieiev	✖️	▢
D	Dmytro	✖️	▢
N	Nataliia	✖️	
ОК	Oleksandr Kyrychok	✖️	▢
OL	Olha Leshok	✖️	▢
P	pavlovych.mp	✖️	▢
TO	Tereshchuk Oleksandra	✖️	▢
V	Viktoriia	✖️	▢
A	Андрій Свиридко	✖️	▢
€	Євген	✖️	▢
Ж	Жуковський Андрій	✖️	▢
	Оксана Станіславчук	✖️	▢
O	Олег Кисловский	✖️	▢
О	Олена	✖️	▢
О	Ольга Лаврентьєва	✖️	▢

Пригласить Включить свой звук

▢ 14:24 16.05.2025

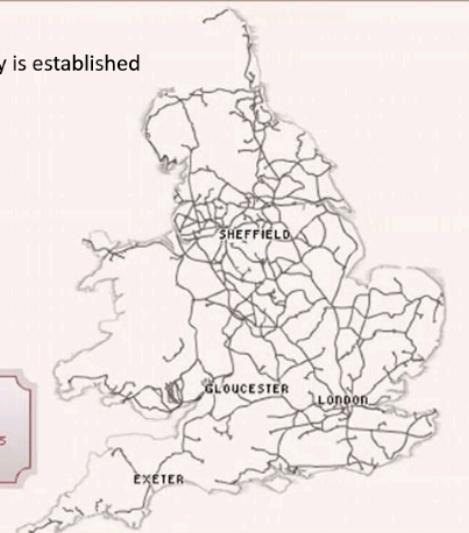
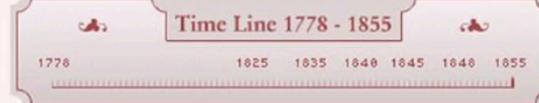
# Railway Safety in Great Britain

Growth of railways 1825 1835 1840 1845 1848 1855

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## Railway Safety in Great Britain

The railway built between 1835 & 1855 was built by 'Navvies' (originally 'Navigators' – they dug canals).

A skilled navvy was expected to move ~20 tonnes of earth per day, using a pick and shovel to fill wagons.

**This is equivalent to digging a trench 1m Wide x 1m deep, and 12m long .....every working day. !!!!!!!**



No 'Health & safety' existed !



Идет запись этой конференции

Лапшин Олександр Криворізький, АБАТІС

Охорона Праці

Анатолій Алексієв

Оксана Станіславчук

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No 'Health & safety' existed !



**N.B.** Part of their pay was in beer .....

- a. to replace lost liquid sweated by digging !
- b. it was safer to drink than the local water !

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Охорона Праці

Anatolii Aleksieiev

Оксана Станіславчук

Олег Кисловський

OK

**Railway Safety in Great Britain**

**How GB railway safety improvements have been driven over the last 200 years**

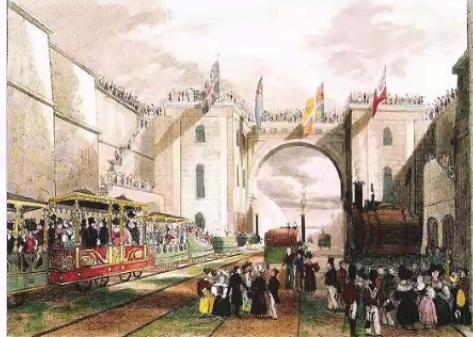
The railway industry has largely 'learned' how to be safer on the back of accidents !

The **opening of the Liverpool and Manchester Railway** took place on 15 September 1830.

At the opening event William Huskisson MP, fell onto the tracks and the *Rocket*, ran over him causing serious leg injuries. He died that night.

An accident enquiry was held to determine what happened and what could be done to stop it happening again.

**Inquiries & Investigations into railway accidents have continued ever since !**



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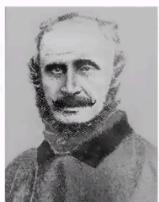
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**Railway Safety in Great Britain**

Late 1830's - The govt of the day recognised the railways boom and that dangerous railway infrastructure and rolling stock were being created.

1840 Railway Regulation Act established "Inspecting Officers of Railways"..... initially to look into railway accidents.



Lt. Col. (later Gen) Sir J.M. Frederick Smith FRS  
Inspector of Railways 1840

1st Chief Inspector of Railways



"Get the basics right. Get it right first time. Every time."

OFFICE OF THE  
RAIL AND ROAD  
NEW CHIEF INSPECTOR  
RICHARD HINES

Richard Hines

26th Chief Inspector of Railways

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# Railway Safety in Great Britain



Definitive railway accidents that were investigated and led to changes :

Идет запись этой конференции

Александр Криворізький, ABATIS

Охорона Праці

Anatolii Aleksieiev

Оксана Станіславчук

Олег Кисловский

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## Railway Safety in Great Britain

Definitive railway accidents that were investigated and led to changes :

- The **Armagh** disaster - 12 June 1889.....80 deaths  
(need for Block signalling & continuous and automatic brake)

Конференция

Экран (ABATIS)

Идет запись этой конференции

Александр Криворізький, ABATIS

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(need for Block signalling & continuous and automatic brake)
- The **Qunitinshill** disaster - 2 May 1915.....226 deaths  
(need for Track Circuits)

Залізничні аварії, які були розслідувані, та які призвели до змін  
Катастрофа в Арма - 12 червня 1889 року - 80 загиблих

# Railway Safety in Great Britain



## Definitive railway accidents that were investigated and led to changes :

- The **Armagh** disaster - 12 June 1889.....**80** deaths  
(need for *Block signalling & continuous and automatic brake*)
- The **Quintinshill** disaster - 2 May 1915.....**226** deaths  
(need for *Track Circuits*)
- The **Harrow & Wealdstone** disaster - 8 October 1952.....**112** deaths  
(need for *AWS – Automatic Warning System to warn drivers passing signals at red*)



Конференция Экран (ABATIS) ...

Идет запись этой конференции

Лапшин Александр Криворізьк... ABATIS Охорона Праці Anatoliy Aleksieiev Оксана Станіславчук Олег Кисловский

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(need for *AWS – Automatic Warning System to warn drivers passing signals at red*)
- The **Clapham** train crash - 12 December 1988.....**35** deaths  
(need for *limits on hours of work to control fatigue of safety critical workers*)

17

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Лапшин Олександр Криворізьк., ABATIS

Охорона Праці

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(need for Track Circuits)
- The **Harrow & Wealdstone** disaster - 8 October 1952.....**112** deaths  
(need for AWS – Automatic Warning System to warn drivers passing signals at red)
- The **Clapham** train crash - 12 December 1988.....**35** deaths  
(need for limits on hours of work to control fatigue of safety critical workers )
- The **Ladbroke Grove** train crash - 5 October 1999.....**31** deaths  
(the need for automatic train protection systems)

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## Railway Safety in Great Britain

### What does this history tell us ?

The railway industry learns by its accidents .....  
often reluctantly.

The **Quintinshill** disaster - 2 May 1915

- Replace gas lighting with electrical lighting
- By 1939 (25yrs !) – only ~ 50% of carriages had electrical lighting

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# Railway Safety in Great Britain

## Lesson from The Ladbroke Grove train crash 1999

### Pt 2 – Recommendations

#### Accident Investigation

59. The more serious cases should be the subject of inquiry by the RAIB (Rail Accident Investigation Branch)\* .

60. The less serious cases should be delegated to the industry to be dealt with by formal inquiry or formal investigation.

61. Consideration should be given, in the longer term, to reducing the investigation of accidents or incidents at industry level to a single method (para 11.9).

62. The sole objective of the investigation of accidents or incidents should be the prevention of accidents and incidents. It should not be the purpose of such investigations to apportion blame or liability.

\* An INDEPENDENT branch of the Department For Transport

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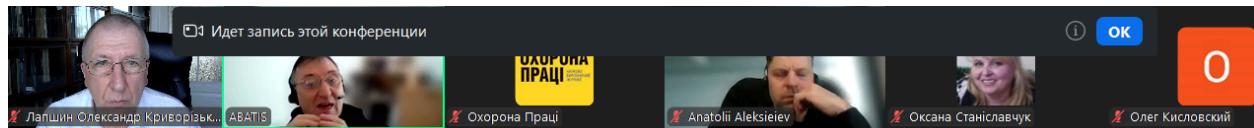
The Ladbroke Grove Rail Inquiry

Part 1 Report



The Rt Hon Lord Cullen PC

19



# Railway Safety in Great Britain

## Lesson from The Ladbroke Grove train crash 1999

### Pt 2 – Recommendations

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The Ladbroke Grove Rail Inquiry

Part 1 Report



The Rt Hon Lord Cullen PC

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# Railway Safety in Great Britain

## Railway Regulation Act 1842

- 2 years after Inspecting Officers of Railways were introduced (1 yr. after Stephenson's letter)  
Inspectors were given authority to postpone the opening of a new railway if such opening ...  
*'would be attended with dangers to the public using the same'*
- Approval of railways, trains and rolling stock in GB continued until 2008 (**167 yrs**) until implementation of the EU railway related directives

Railway Regulation Act 1842

UK Public General Acts ▶ 1842 c. 58 (Revised: E\_1842\_V1) ▶ Table of contents

Table of Contents Content More Resources

What Version

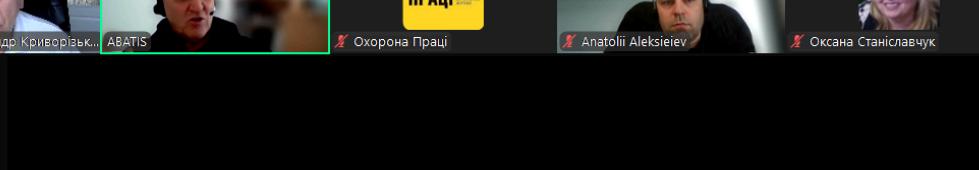
Latest available (Revised) Help  
 Original (As enacted) Help

Opening Options Help  
More Resources Help

Changes to legislation: Railway Regulation Act 1842 is up to date with all changes known to be in force on or before 07 August 2012. There are changes that may be brought into force at a future date. Help

Introductory Text

1. Recited Act and this Act to be construed together.  
2. ....  
3. ....  
4-5. ....  
6. ....  
7. Gates at level crossings to be kept closed across the road.  
8. Railway companies to erect and maintain fences.  
9. ....  
10. Railway companies to erect and maintain fences.  
11-13. ....  
14. Power for railway companies to enter upon adjoining lands to repair accidents.  
15. Compensation powers of taking land for the purposes of railways extended where thought necessary for safety by the Board of Trade.  
16. ....  
17. Punishment of persons employed on railways guilty of misconduct.  
18. Sheriffs to have jurisdiction in Scotland.  
19. ....  
20. ....  
21. Meaning of the words "railway" and "company".  
22. ....  
23. ....



## Railway Safety in Great Britain

### Railway Regulation Act 1842

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Railway Regulation Act 1842

UK Public General Acts • 1842 c. 55 (Reprint\_E\_and\_E\_3.html) • Table of contents

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What Version Learn available (Reprint) Original (Act as enacted)

Opening Options More Resources

Changes to legislation: Railway Regulation Act 1842 is up to date with all changes known to be in force on or before 07 August 2022. There are changes that may be brought into force at a future date.

Introduction Text

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- 2.
- 3.
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- 10.
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- 13.
- 14.
15. Meaning of the words 'railway' and 'company'.
- 22.
- 23.

Идет запись этой конференции

OK

ОХОРОНА ПРАЦІ

ОХОРОНА ПРАЦІ

Анатолій Алексієв

Оксана Станіславчук

Олег Кисловський

# Railway Safety in Great Britain

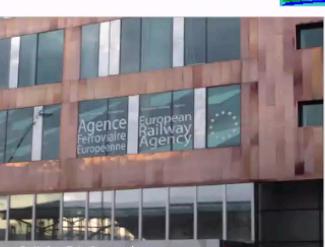
## The European Dimension

Key railway related directives:-

- EU Railway safety directive (2004)
- EU Interoperability directive (2008)

The Railway safety directive(s) Included setting up of the European Union Agency for Railways (ERA) to :

- set common safety targets, common safety methods and common safety indicators as required by the Railway Safety Directive
- host a number of databases, among which a register of remaining, applicable national rules.
- Development and implementation of the [European Rail Traffic Management System \(ERTMS\)](#).



By Kaisu Tai - Own work

22

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Лапшин Олександр Криворізьк., ABATIS

Охорона Праці

Anatolii Aleksieiev

Оксана Станіславчук

Олег Кисловский

0

## Railway Safety in Great Britain

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**EU Interoperability directive (2008)**

- Post UK Brexit; GB modified its interoperability but continues to adopt the EU approach ; e.g. 'Technical Specifications for Interoperability' are 'National Technical Specification Notices (NTSNs)' in the UK.
- The underlying principles are the same**
  - There is a national 'Competent Authority' (CA) ....in GB it is the Office of Rail and Road (ORR)
  - Railway subsystems must be 'authorised' by the CA before being introduced
- Approval mechanisms are somewhat different to historic UK ones BUT GB continues to ensure that Govt has final oversight to ensure only railway infrastructure and railway trains & rolling stock built to accepted national standards are allowed to be part of the GB mainline railway.

**Latest version :**  
[DIRECTIVE \(EU\) 2016/797 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 11 May 2016 on the interoperability of the rail system within the European Union \(recast\)](https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32016L0797&from=EN)

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Участники (29)

Найти участника

Л	Лапшин Олександр Криво... (Я)	✖️	🔇	
ОХОРНІ ПРАЦІ	Охорона П... (Організатор)	☁️	✖️	🔇
ОХОРНІ ПРАЦІ	ABATIS (Соординатор)	⬆️	☁️	🔇
ОХОРНІ ПРАЦІ	Охорона... (Соординатор)	☁️	✖️	🔇
	Alan Plom	✖️	🔇	
A	Alona	✖️	🔇	
D	Dmytro	✖️	🔇	
E	ESOSH OFFICE	✖️	🔇	
	Galyna Kryvenko	✖️	🔇	
N	Nataliia	✖️	🔇	
H	Nataly Sazonova	✖️	🔇	
OK	Oleksandr Kyrychok	✖️	🔇	
OL	Olha Leshok	✖️	🔇	
P	pavlovych.mp	✖️	🔇	
TO	Tereshchuk Oleksandra	✖️	🔇	
V	Valentyna.Zabelina	✖️	🔇	
V	Viktoriia	✖️	🔇	
YR	Yuriy Ruduk	✖️	🔇	
A	Андрій Свиридко	✖️	🔇	
Є	Євген	✖️	🔇	
Ж	Жуковський Андрій	✖️	🔇	

Пригласить

Включить свой звук

# Railway Safety in Great Britain



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# Railway Safety in Great Britain



EU Interoperability directive (2008) : since Brexit in the UK this is called .....

## The Railways (Interoperability) Regulations 2011 (Updated July 2020)

Primary Interoperability duties placed on ORR ( the GB National Safety Authority) are:

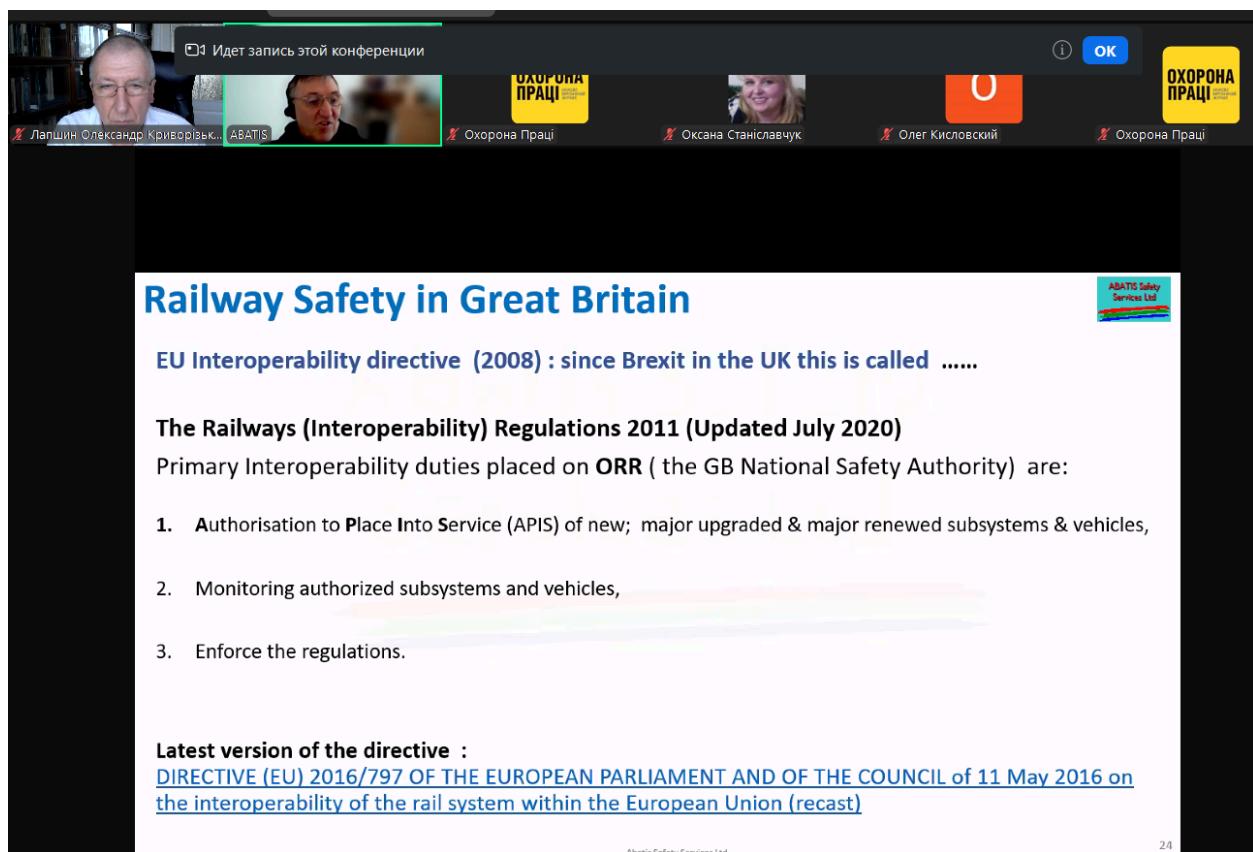
- Authorisation to Place Into Service (APIS) of new; major upgraded & major renewed subsystems & vehicles,
- Monitoring authorized subsystems and vehicles,
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### Latest version of the directive :

[DIRECTIVE \(EU\) 2016/797 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 11 May 2016 on the interoperability of the rail system within the European Union \(recast\)](#)

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24



Идет запись этой конференции

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Оксана Станіславчук

Олег Кисловский

ОХОРОНА ПРАЦІ

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OK

**Railway Safety in Great Britain**

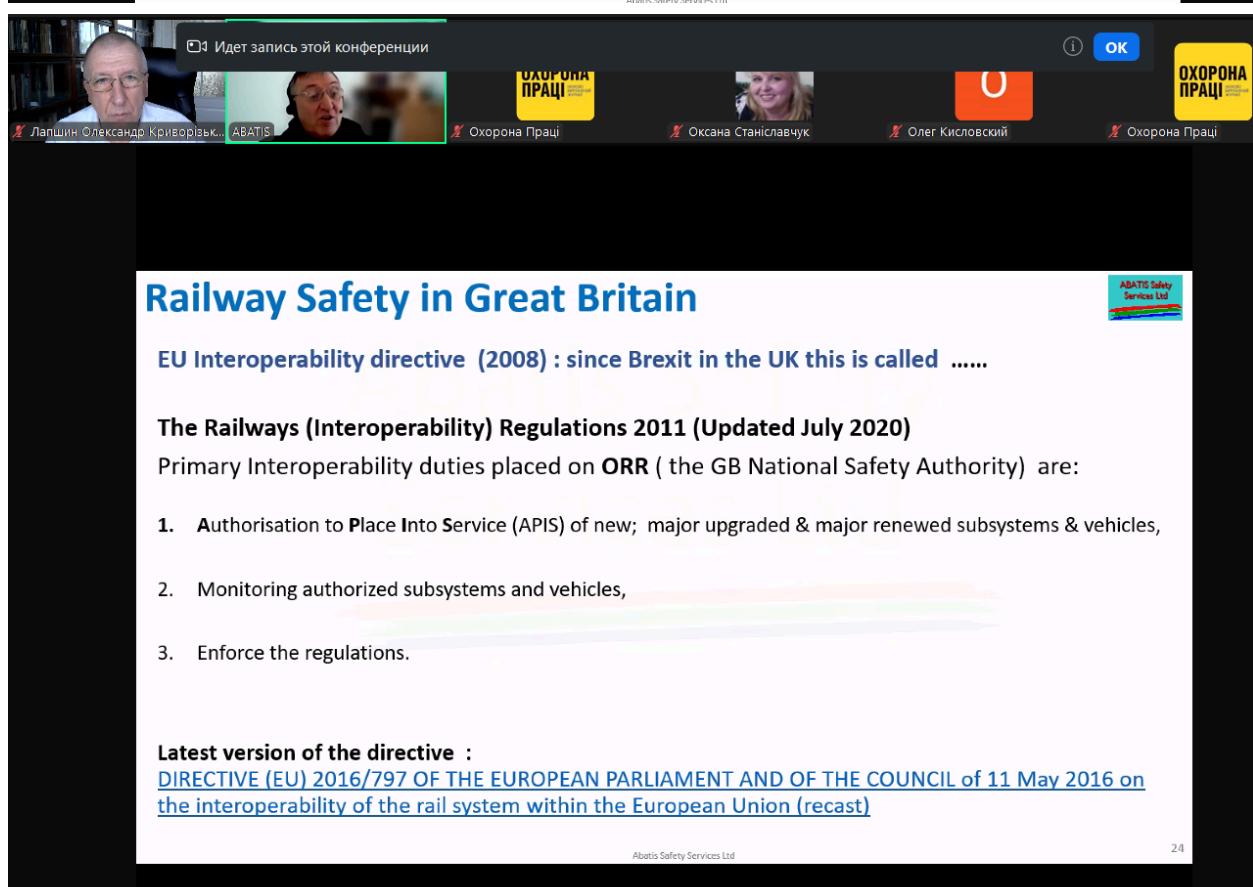
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ОХОРОНА ПРАЦІ

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Лапшин Олександр Криворізький, ABATIS

Охорона Праці

Оксана Станіславчук

Олег Кисловский

Охорона Праці

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**Railway Safety in Great Britain**

EU Interoperability directive (2008)

The Railways (Interoperability) Regulations 2011 (Updated July 2020)

- APIS is a demonstration of conformity to requirements (in the UK) with **National technical specification notices (NTSNs)** (the EU term is TSI's -**Technical Specifications for Interoperability**) and national rules. This includes essential requirements of safety and technical compatibility with a generic infrastructure design for new or upgraded vehicles.
- A Project (e.g. introduction of a new train ) must apply to ORR for APIS.
- To do this the project engages a recognised Assessment Body (AsBo)\*.
- The AsBo applies applied the Common Safety Method for Risk Evaluation and Assessment (CSM REA) to demonstrate safe integration at the point of application for APIS .

Latest version of the Directive :

[DIRECTIVE \(EU\) 2016/797 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 11 May 2016 on the interoperability](https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:02016R0797&from=EN)

Recognised UK AsBo's

- <https://assets.publishing.service.gov.uk/media/60f5816dd3bf7f568ffe87cb/approved-bodies-and-designated-bodies-doing-work-in-the-uk.csv/preview>

25

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Лапшин Олександр Криворізький, ABATIS

Охорона Праці

Оксана Станіславчук

Олег Кисловский

Охорона Праці

ОХОРОНА ПРАЦІ

**Railway Safety in Great Britain**

**The impact of the EU “Railway Safety Directive” :**

**Original :**  
[DIRECTIVE 2004/49/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 29 April 2004 on safety on the Community's railways. \(The Railway Safety Directive\)](https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:02004R049&from=EN)

**Latest version:**  
[DIRECTIVE \(EU\) 2016/798 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 11 May 2016 on railway safety \(recast\)](https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:02016R0798&from=EN)

One of the key requirements of the Railway Safety Directive was .....

“the establishment, for each Member State, of a national safety authority and an accident and incident investigating body”

In GB.....

- The **national safety authority** is the Office of Rail and Road (ORR)  
<https://www.orr.gov.uk/>
- The **accident and incident investigating body** is the Rail Accident Investigation Branch (RAIB)  
<https://www.gov.uk/government/organisations/rail-accident-investigation-branch>

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26

# Вплив Директиви ЄС про безпеку залізничного транспорту

Вплив Директиви ЄС про безпеку залізничного транспорту



Идет запись этой конференции

Лапшин Олександр Криворівськ, АВАТІС

Охорона Праці

Оксана Станіславчук

Олег Кисловский

Охорона Праці

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**Railway Safety in Great Britain**

NEXT TIME .....23 May 2025

- The requirements of the Railway Safety Directive
- Its implementation in GB
- The significance of the “safety management system”
- The impact implementing Railway Safety Directive requirements
- How ORR ‘Inspection’ works - the Risk Management Maturity Model (RM3)
- How the RAIB works : Rail Accident Investigation
- How ORR and RAIB interact

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29

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Лапшин Олександр Криворівськ, АВАТІС

Охорона Праці

Оксана Станіславчук

Олег Кисловский

Охорона Праці

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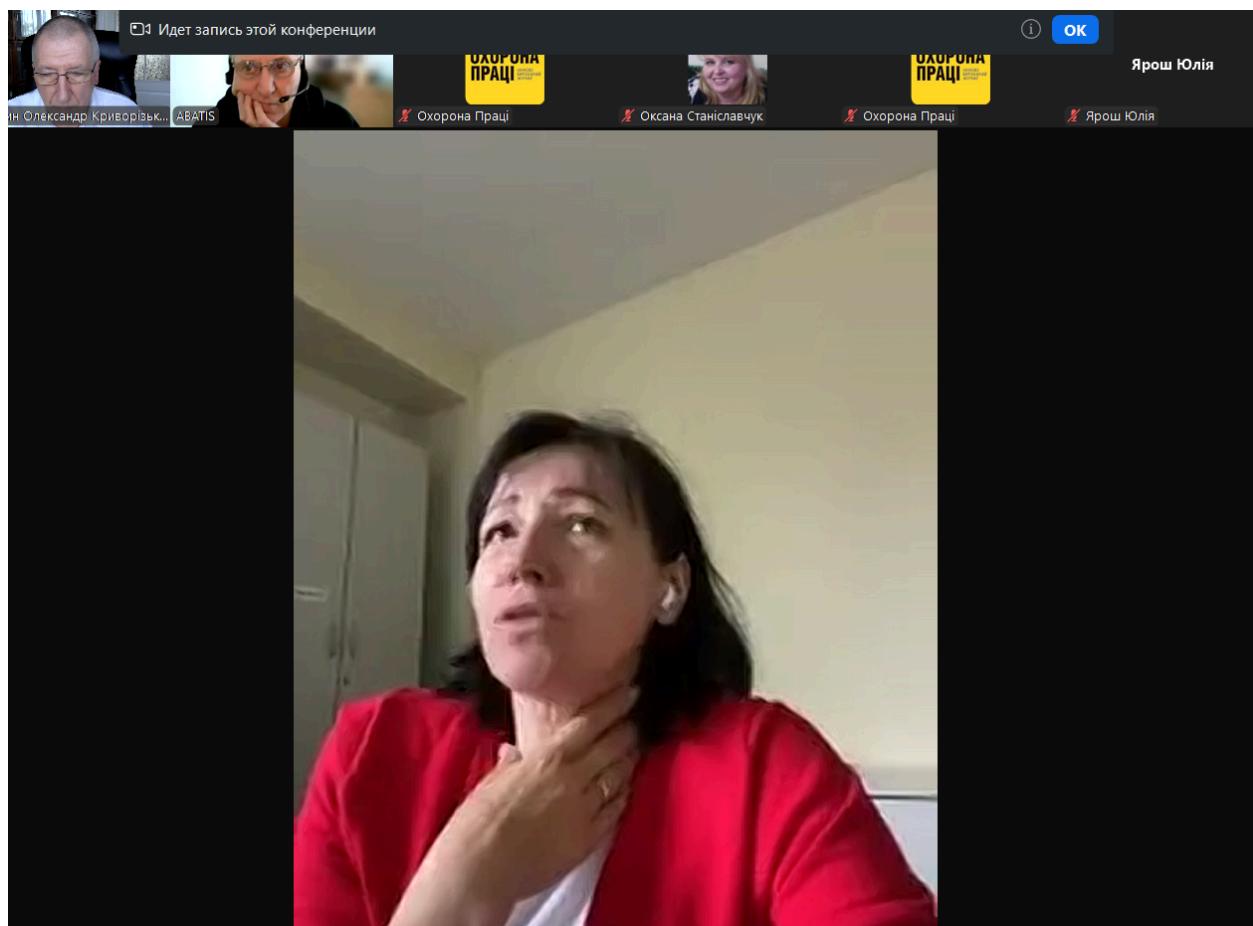
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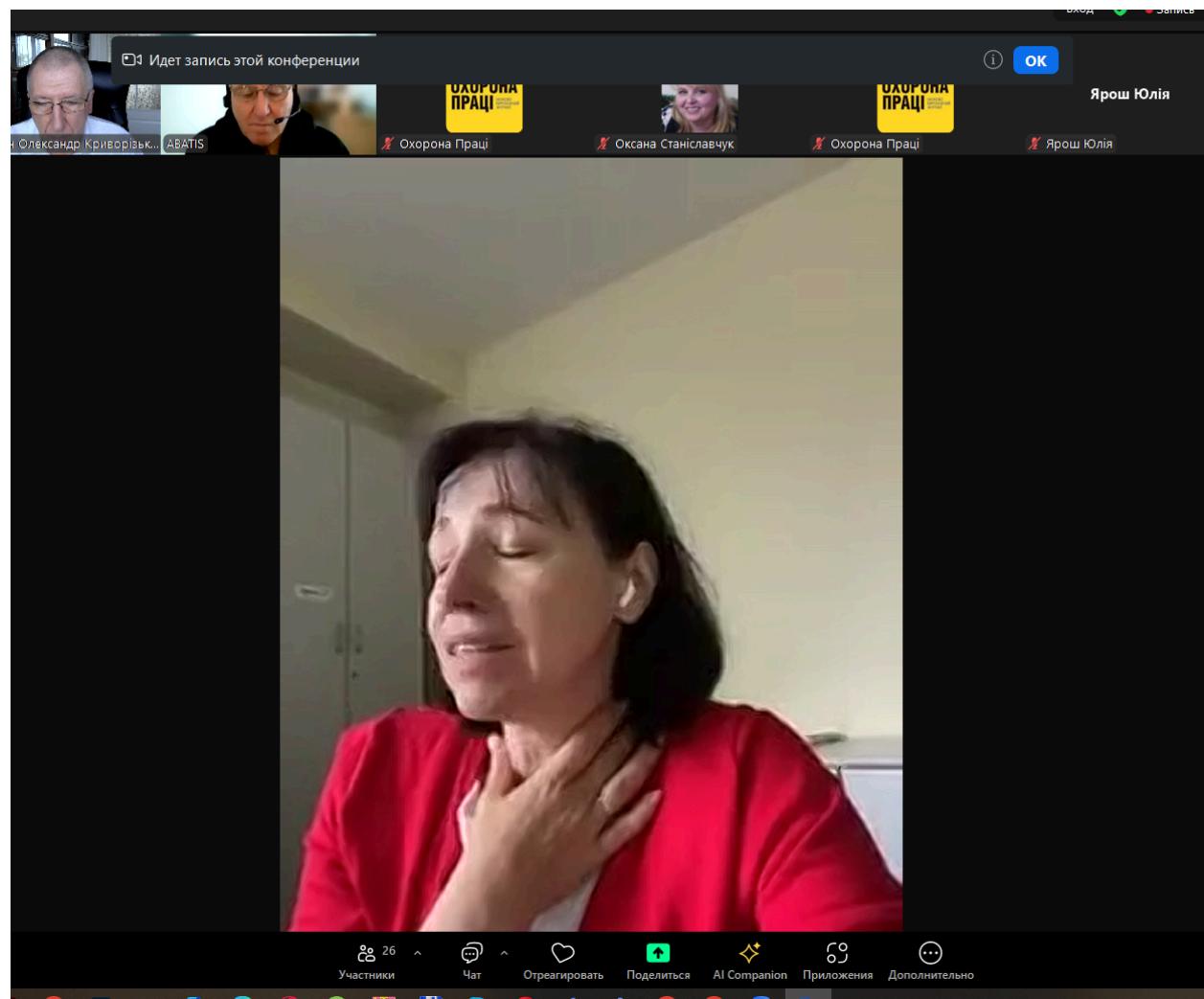
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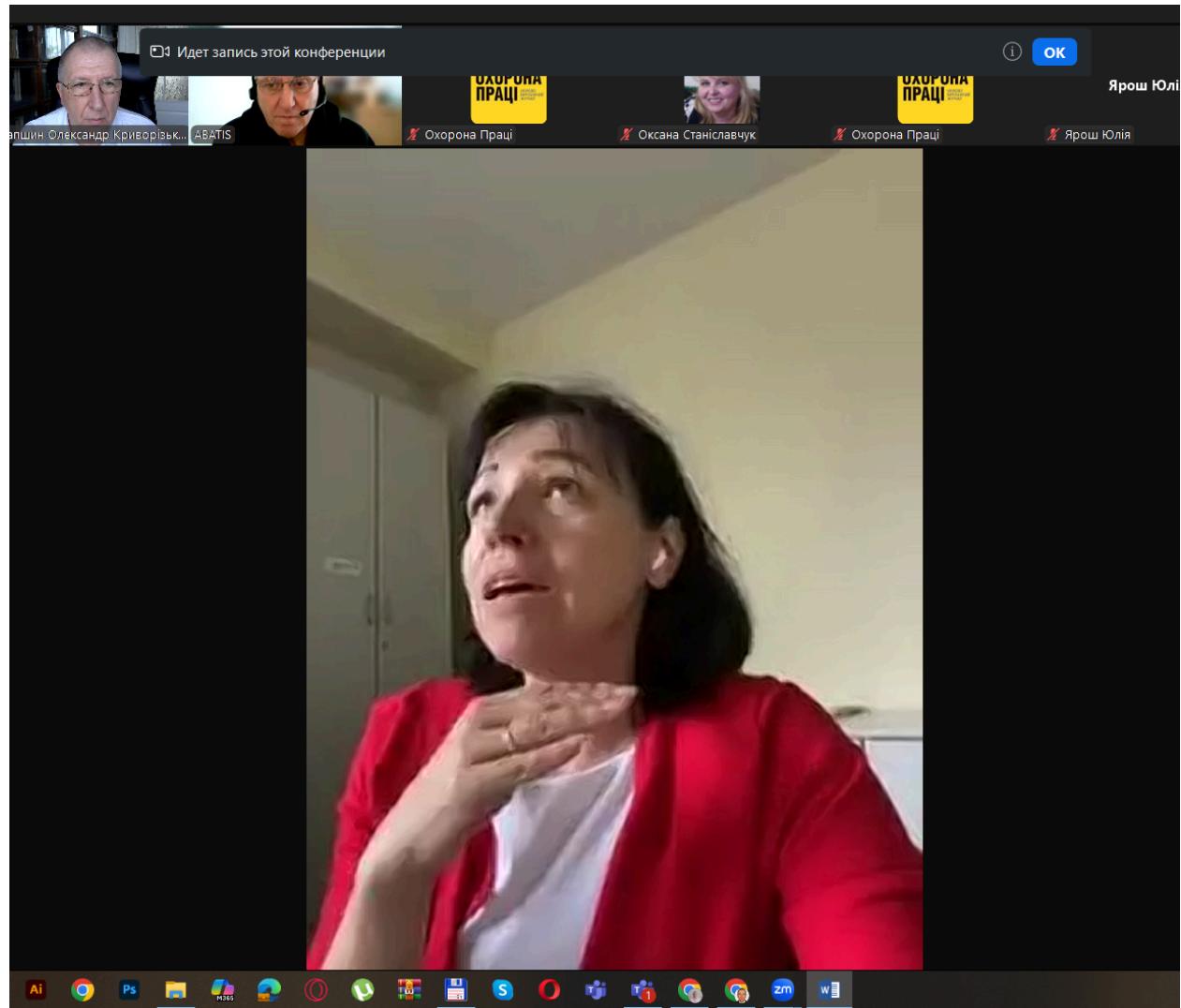
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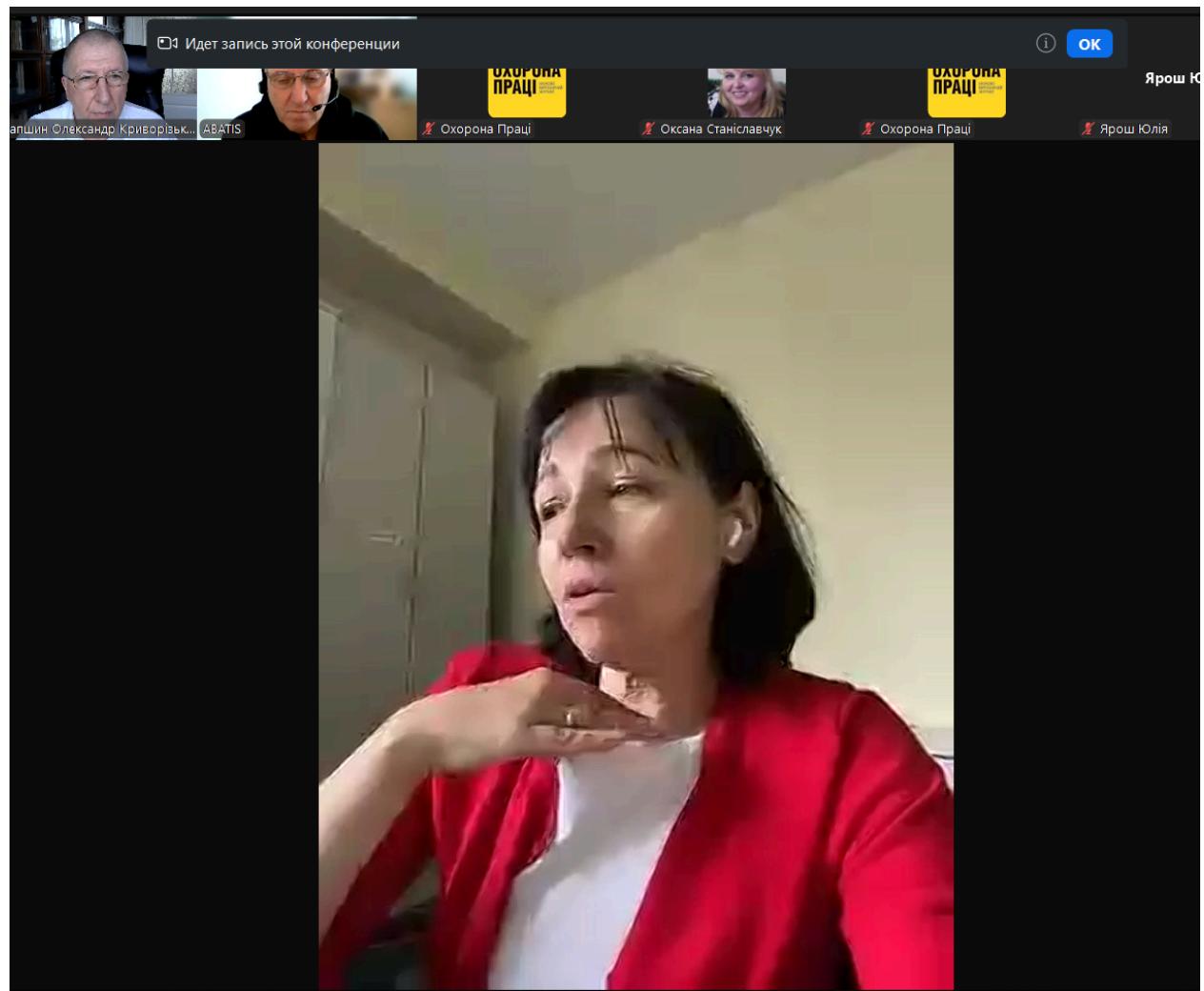


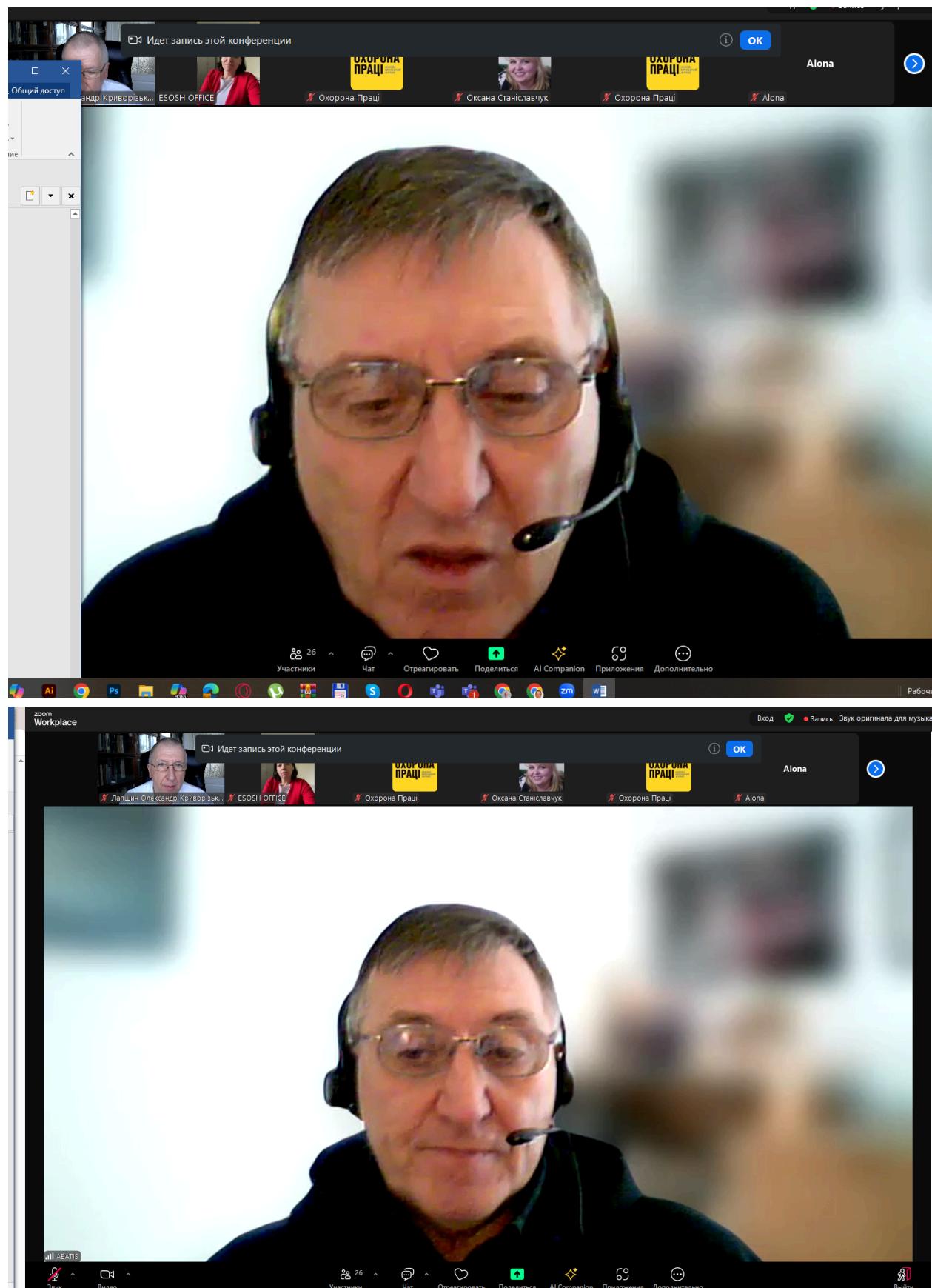


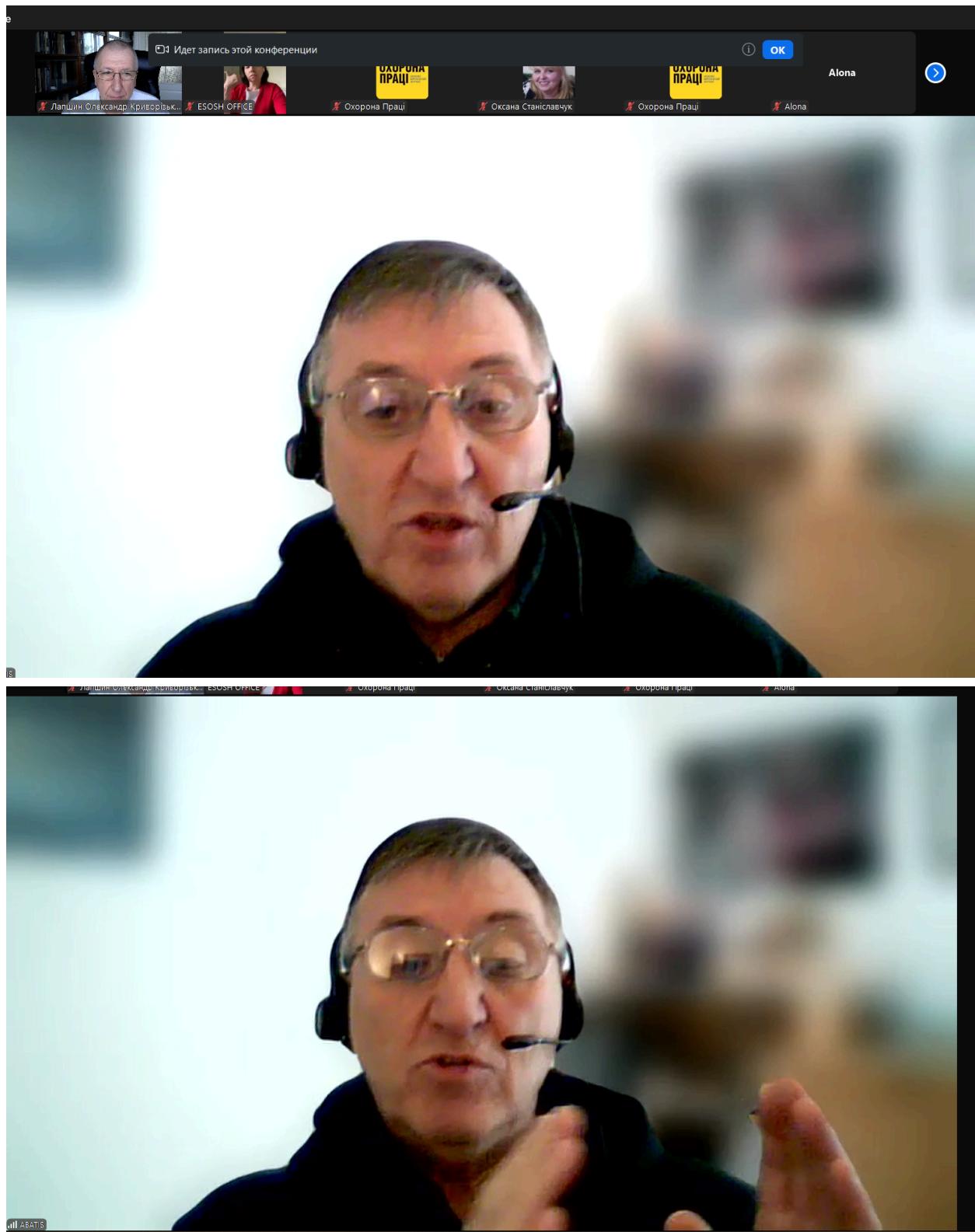


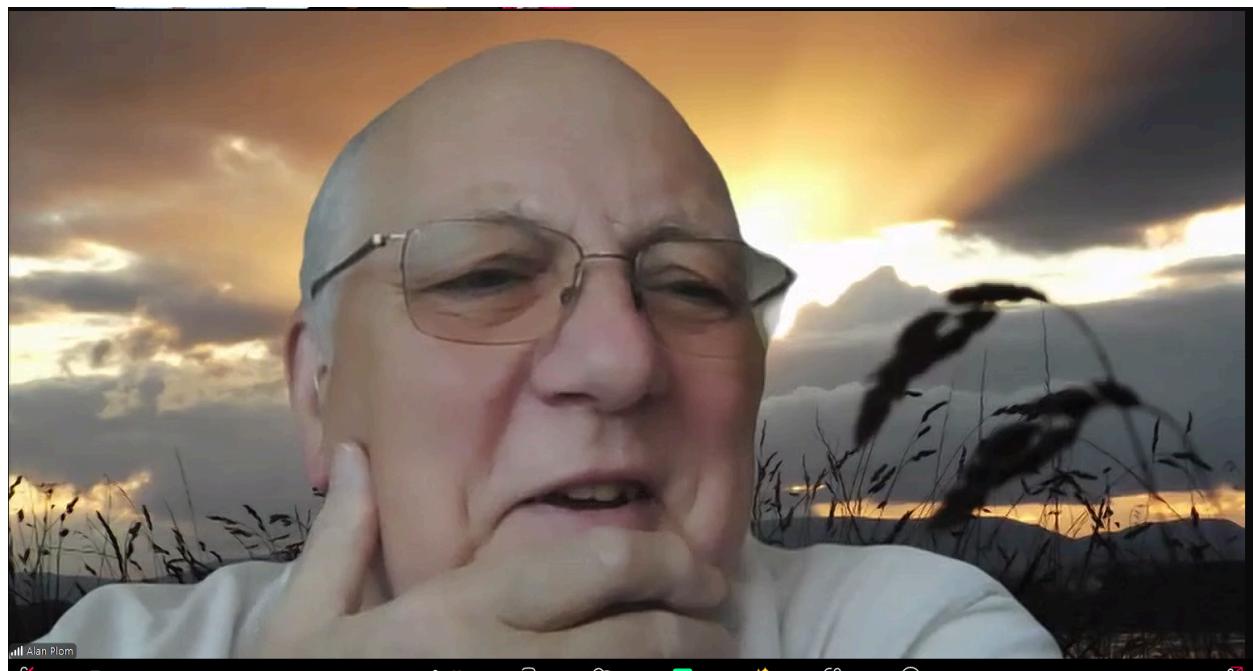
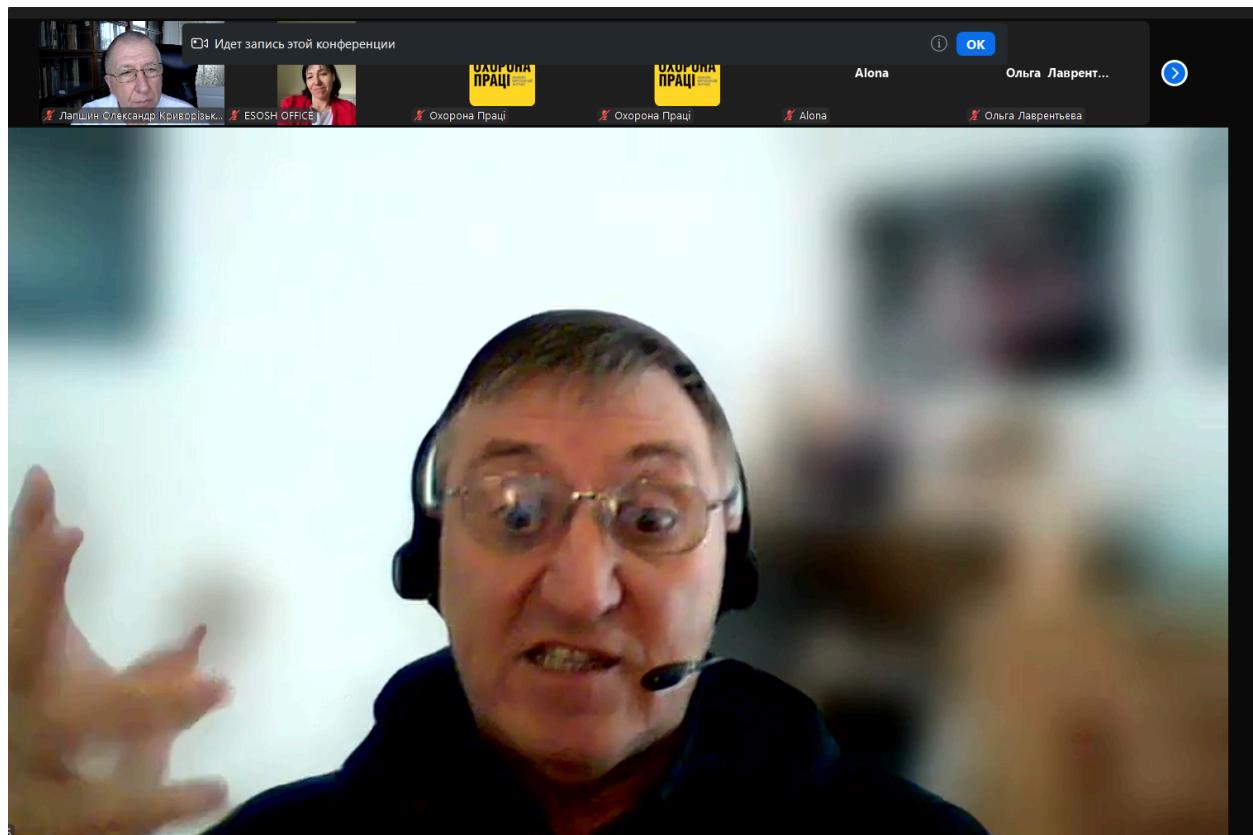












zoom  
Workplace

Идет запись этой конференции

Лапшин Александр Криворыб... АВАТИС ESOSH OFFICE Охорона Праці Охорона Праці Alona

OK

Вход Запись Звук оригинала для музыкант

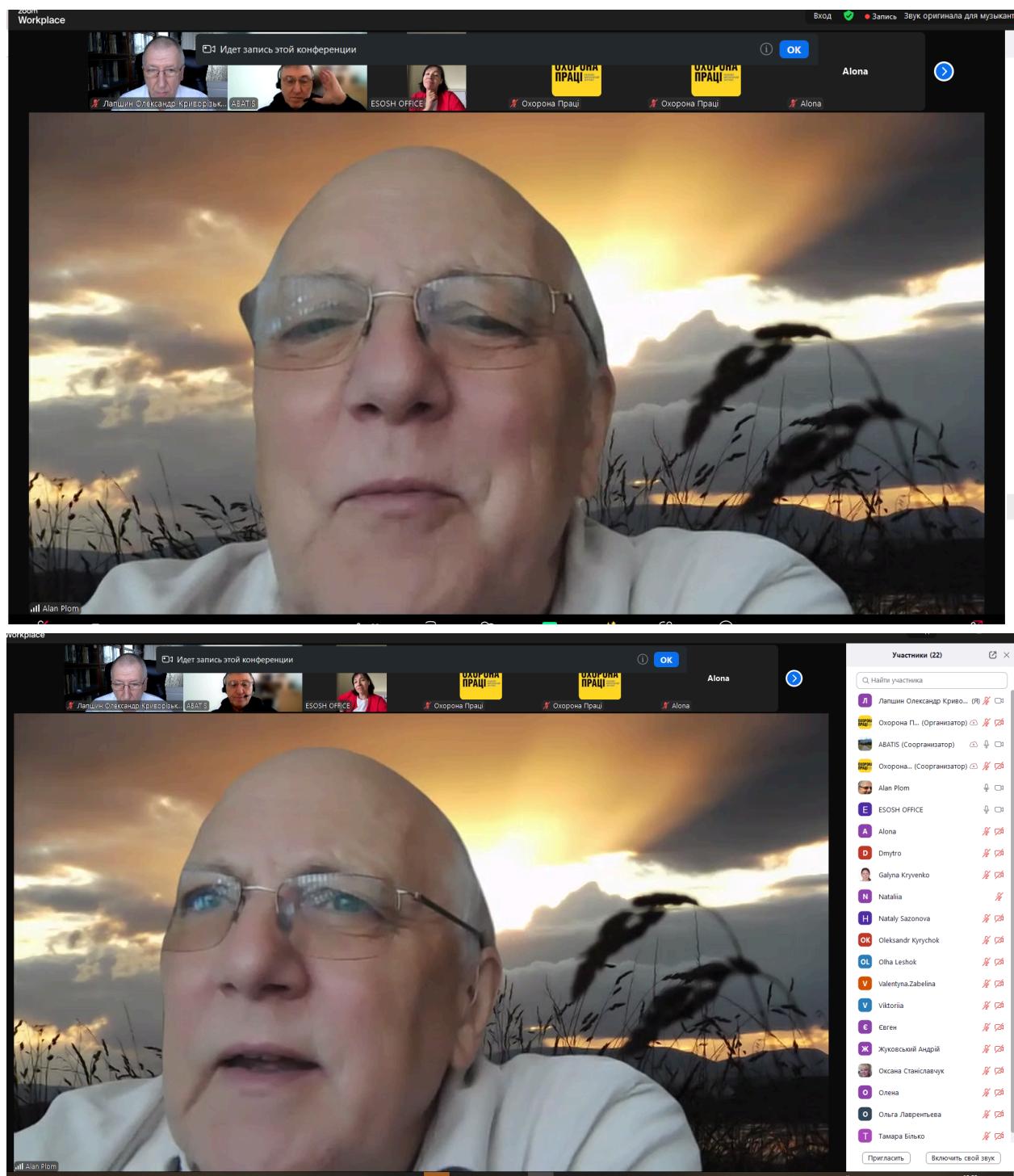
Alona

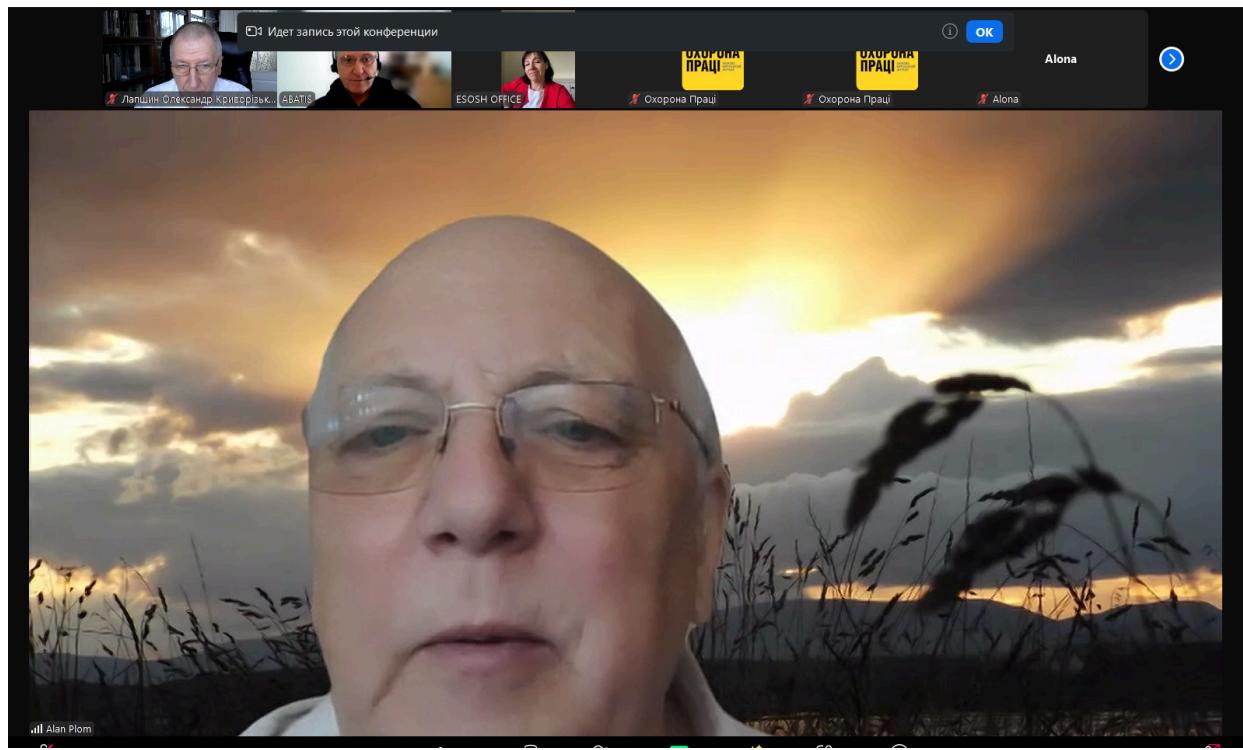
OK

Найти участника (22)

Лапшин Александр Криворыб... (Р) Охорона Праці (Организатор) АВАТИС (Соорганизатор) Охорона Праці (Соорганизатор) ESOSH OFFICE Alona Dmytro Galyna Kryuchok Natalia Natalya Sazonova Oleksandr Kryuchok Olha Leshok Valentyna Zabelina Viktoriia Евген Жуковський Андрій Оксана Станіславчук Олена Ольга Лаврентьєва Тамара Балько

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Участники (18)

- Лапшин Олександр Кривор... (Я)
- Охорон... (Организатор)
- ABATIS (Соорганизатор)
- Охорон... (Соорганизатор)
- ESOSH OFFICE
- Valentyna.Zabelina
- Alan Plom
- Alona
- Galyna Kryvenko
- Nataliia
- Oleksandr Kyrychok
- Viktoriia
- Євген
- Оксана Станіславчук
- Олена
- Ольга Лавренчєва
- Тамара Білько
- Філімчук Віктор - д.т.н., профес...

Valentyna.Zabelina

Lightshot

Скриншот скопирован в буфер обмена