



100 years
BITUMEN EMULSION

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Bitumen Emulsion is more than 100 years old ...



PATENT SPECIFICATION

Application Date : May 9, 1922. No. 13,022 / 22.

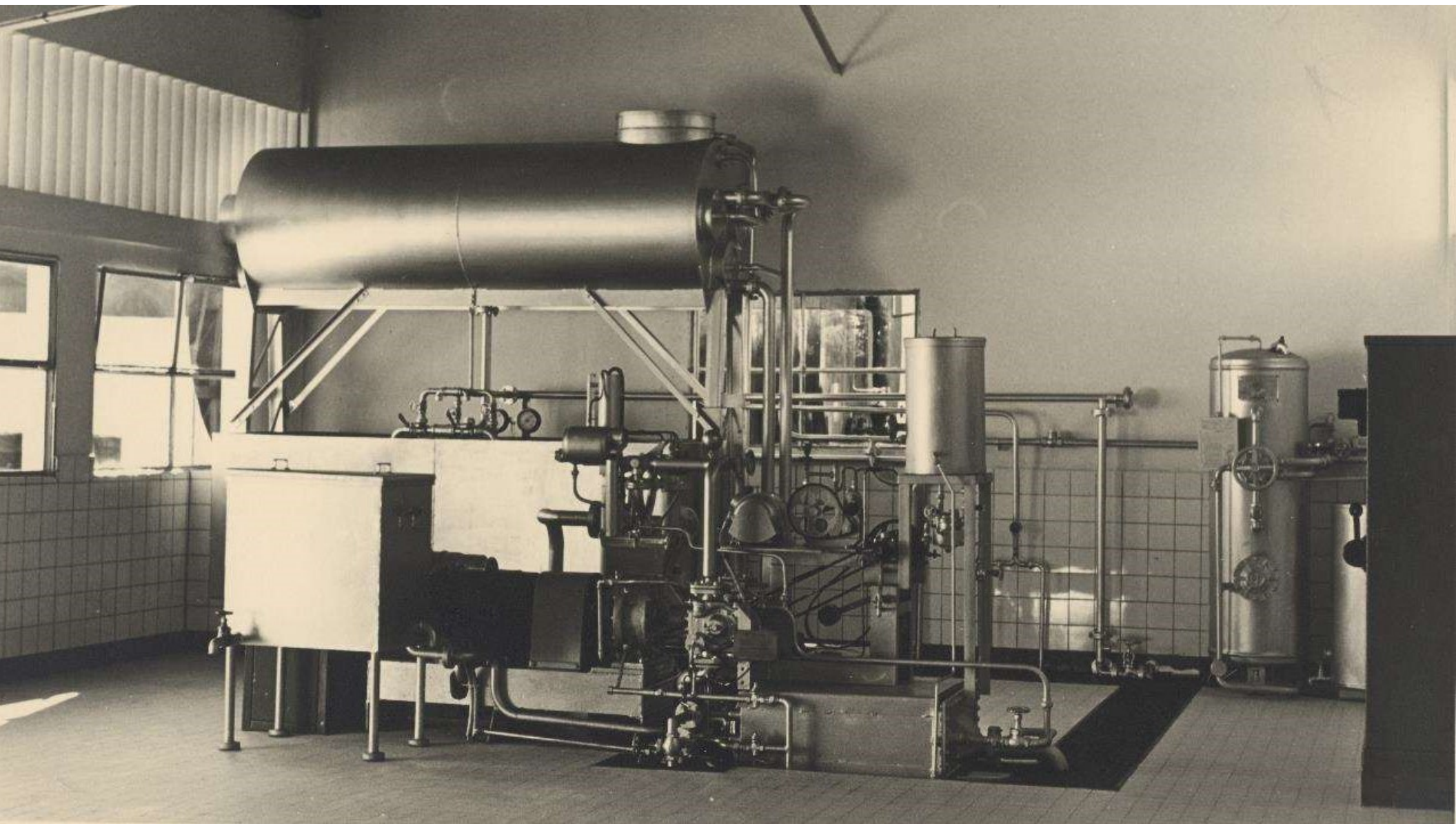
Complete Left : March 8, 1923.

Complete Accepted : Aug. 9, 1923.

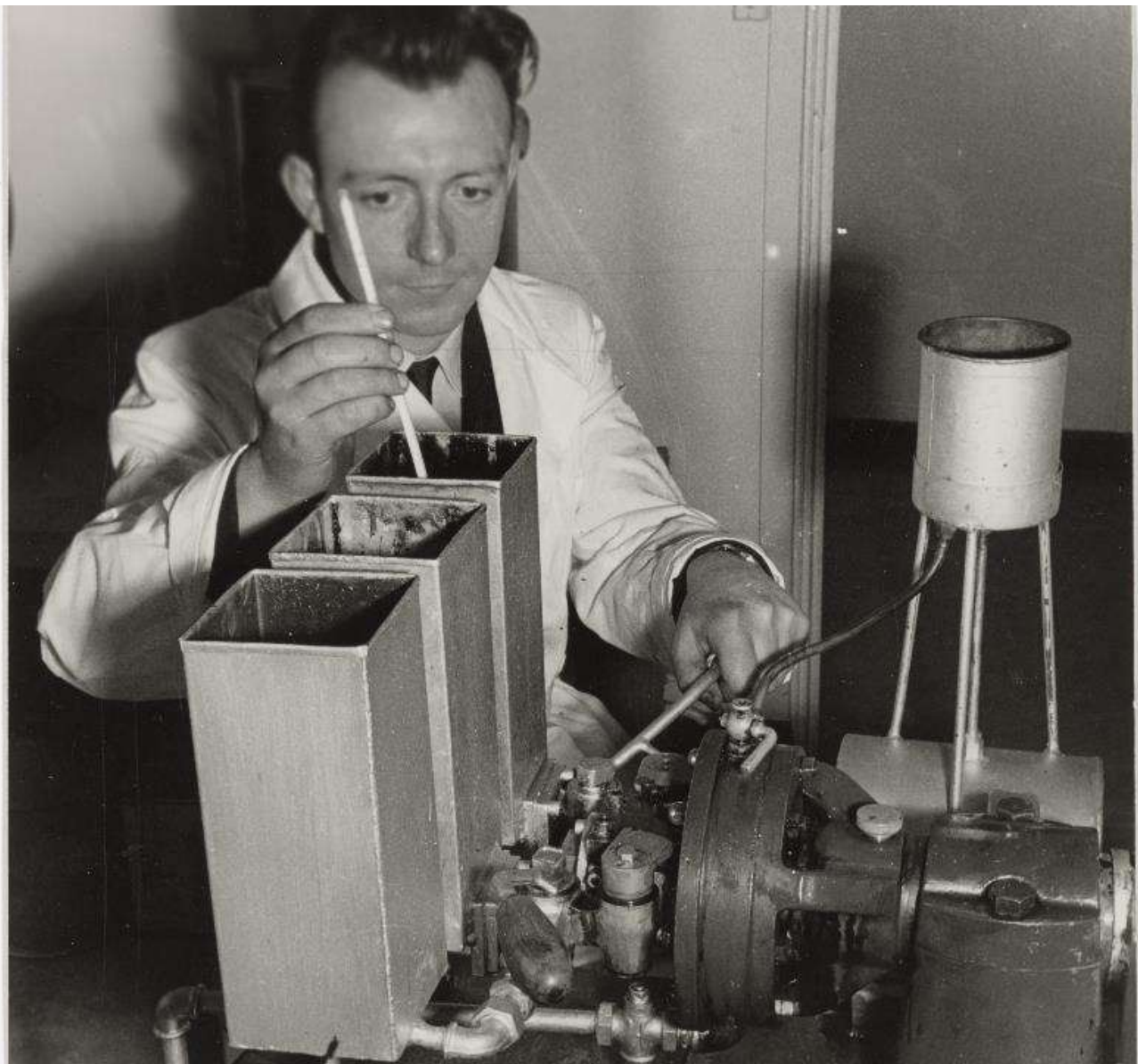
PROVISIONAL SPECIFICATION.

202,021

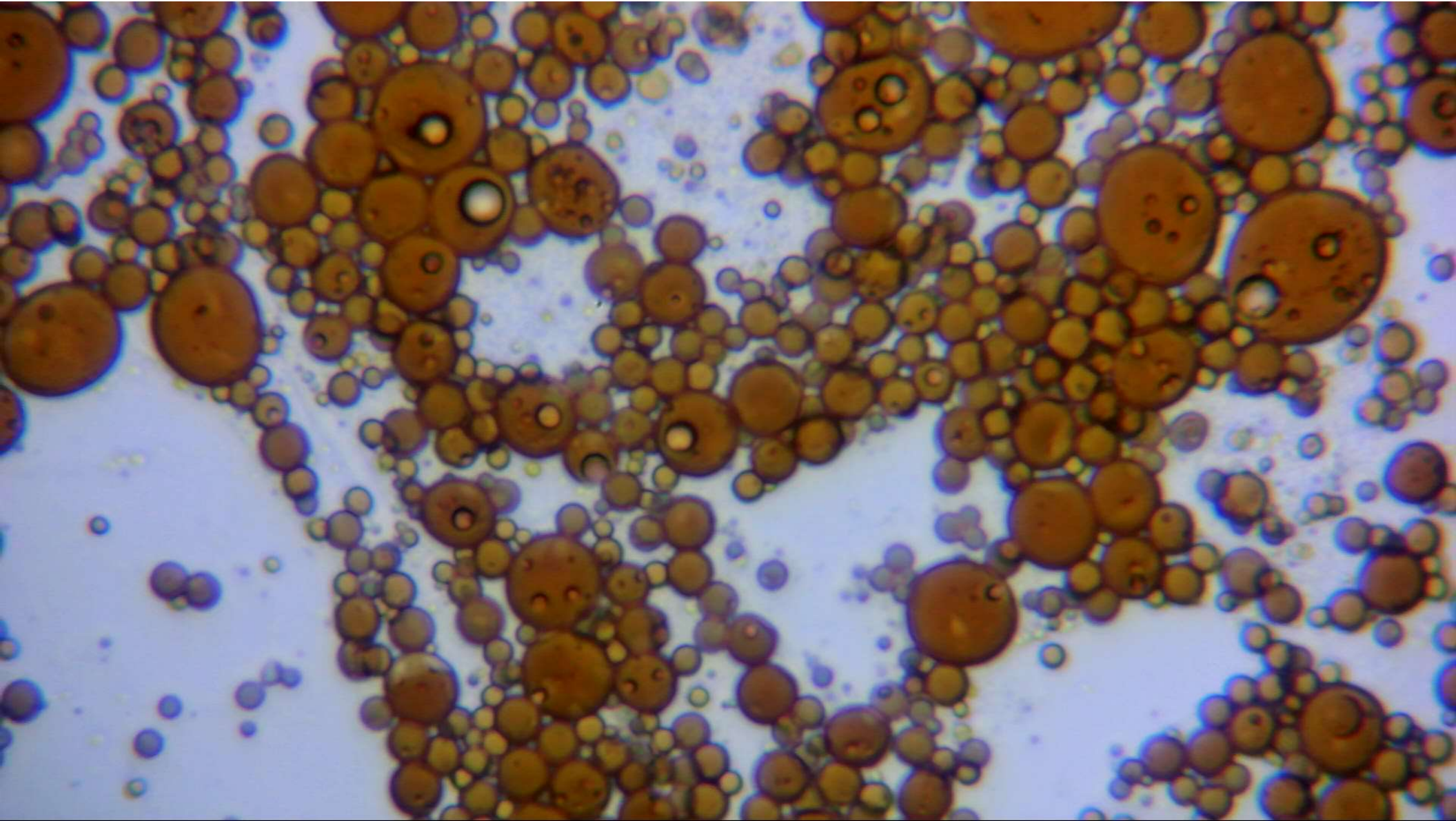
Improvements in or relating to Bituminous Emulsions.

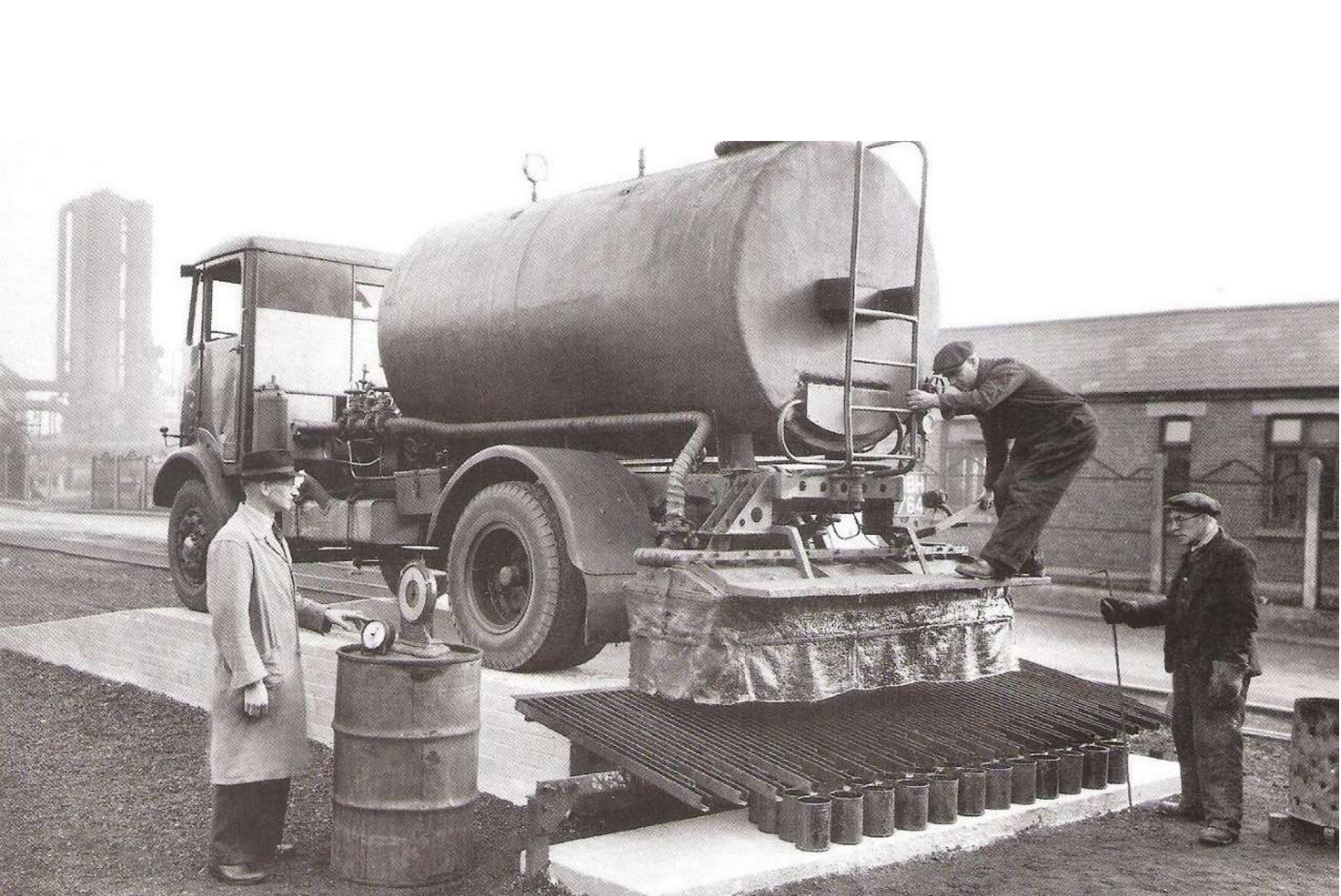














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22.02.2018







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BITUMEN EMULSION: WHAT FOR?



PRIME COAT

IBEF - 2022



TACK COAT



FOG SEAL

DENSE COLD MIX



COLD IN PLANT RECYCLING



COLD IN PLACE RECYCLING



DUST SUPPRESSANT





SEAL COAT



SCRUB SEAL



SURFACE DRESSING

MICROSURFACING



Combination of SD & MS



Combination of SD & MS





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BITUMEN EMULSION: ENVIRONMENTAL ASPECT



construction method	to CO2-Äqu./1.000m²
Single surface dressing (15kg/m²)	0,7 – 1,8
Double surface dressing (27kg/m²)	1,3 – 2,5
Microsurfacing (25kg/m²)	1,0 – 2,8
SSD+MS (40kg/m²)	1,7 – 4,6
Hot Mix Asphalt (100kg/m²)	???

IBEF: THE MISSION



Promoting the use of bitumen emulsion worldwide

Collecting and disseminating market data

Exchanging information on best practices

Conducting periodic worldwide technical symposiums

ADVISORY: Independent state
Dependency or area of special sovereignty
Territory / ASSOCIATED: Island group
★ Capital



THE IBEF: WHERE?

22 countries

THE IBEF: WHO?

11 national associations



AFPA
AUSTRALIAN FLEXIBLE PAVEMENT ASSOCIATION

AEMA

Asociación Mexicana del Asfalto, A.C.

ATEB

FBK

PSWNA

JEA
一般社団法人 日本アスファルト乳剤協会
JAPAN EMULSIFIED ASPHALT ASSOCIATION

REA
Road Emulsion Association Limited

sabita

SFERB
Routes de France

SITEB
STRADE ITALIANE E BITUMI

23 associate members



ARKEMA
INNOVATIVE CHEMISTRY

BASF
The Chemical Company

Ingevity

kao
Enriching lives, in harmony with nature.

TERCHIMICA

CHEMORAN



TotalEnergies

CEAA



VIALAB
THE ART OF BITUMEN

paragon
technical services, Inc.



SAE
FAYAT GROUP

BWS Technologie



HINCOL

INSUNG

BitChem
Asphalt Technologies Limited

Ooms
Civiell

Пъттрибор

KANDOVAN PARS
CONSTRUCTION COMPANY

TIPCO
ASPHALT

ГРУППА РАД

it's
Vialit
ASPHALT

ENFALT

THE IBEF: WHO?

Board of Directors



AEMA
Gaylon Baumgardner
President of IBEF



AMAAC
Víctor CINCIRE
Director



ATEB
Maria Del Mar Colas
Vice-president



SITEB
Carlo GIAVARINI
Director



AfPA
Carlos RIAL
Director



FBS
Thomas Olligschläger
Director



JEAA
Manabu Obata
Director



REA
Kevin Maw
Director



SABITA
Philip Hendricks
Director



SFERB
Jean-Pierre PASERI
Director



PSWNA
Andrzej Wyszyński
Director

THE IBEF: WHO?

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Gaylon Baumgardner
President



Siobhan McKelvey
Past President



Maria Del Mar Colas
Vice-President



Anna d'Angelo
Vice-President



Xavier Guyot
Executive Director



Catherine Fouchard
Secretary General



Nuria Uguet
Technical Coordinator



Rosita Martinez
Technical Coordinator



Carl Robertus
Technical Coordinator



Arlis Kadrmas
Technical Coordinator



Hamidreza Sahebzamani
*Communication
Coordinator*



Etienne Le Boutellier
Senior Advisor



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Emulsion Federation

THE IBEF: HOW?

Website

<https://www.ibef.net>



Vocation

Members

Emulsions

Events

Resources

News

Organization

Contact us



The IBEF


The voice of bitumen emulsions worldwide

OUR VOCATION

Website

<https://www.ibef.net>



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RESOURCES

[IBEF](#) > Resources

Find information made available by active contributions of IBEF members.



IBEF Reports and Seminars

Reports drawn up by members of IBEF allow better sharing of best practice, technology development and market developments.



Publications

Find articles from the specialized press, communications and congress presentations

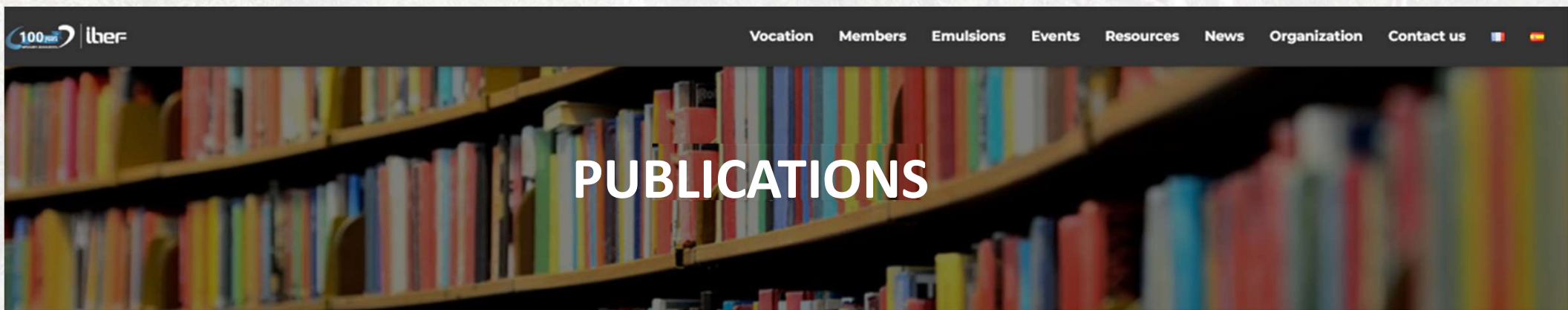


Training

Specific training programmes are available in many countries: discover here what IBEF members offer.

Website

<https://www.ibef.net>



🏠 IBEF > Resources > Publications

Specialists from industry, academia, road authorities communicate regularly through the trade press, social media, conferences and other large audiences. These publications allow professionals to develop the best practice and good use of bitumen emulsions.



Reference books and guides



Congress Proceedings



Newspaper articles

Website

<https://www.ibef.net>



EMULSION

[Home](#) > [Emulsions](#)

Each year, more than 8 million tons of bitumen emulsion are produced worldwide, accounting for nearly 10% of global bitumen consumption.

Local repairs, structural maintenance, surface maintenance ..., bitumen emulsion techniques meet the needs to sustainably preserve the streets and roads. They are energy efficient and limit greenhouse gas emissions.



Advantages



Uses



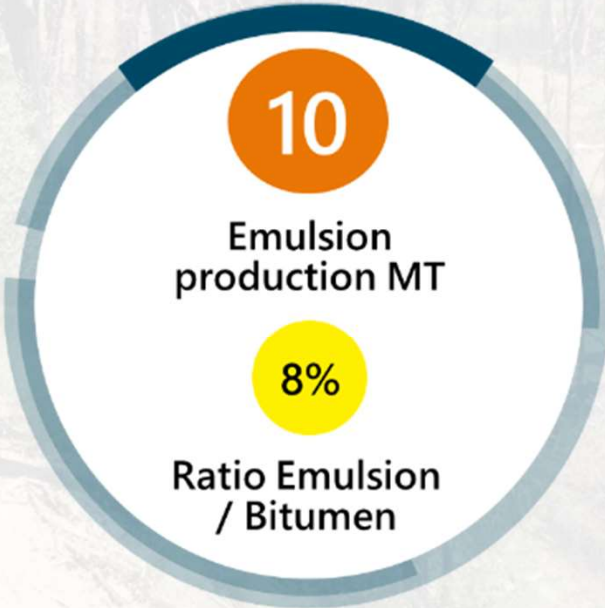
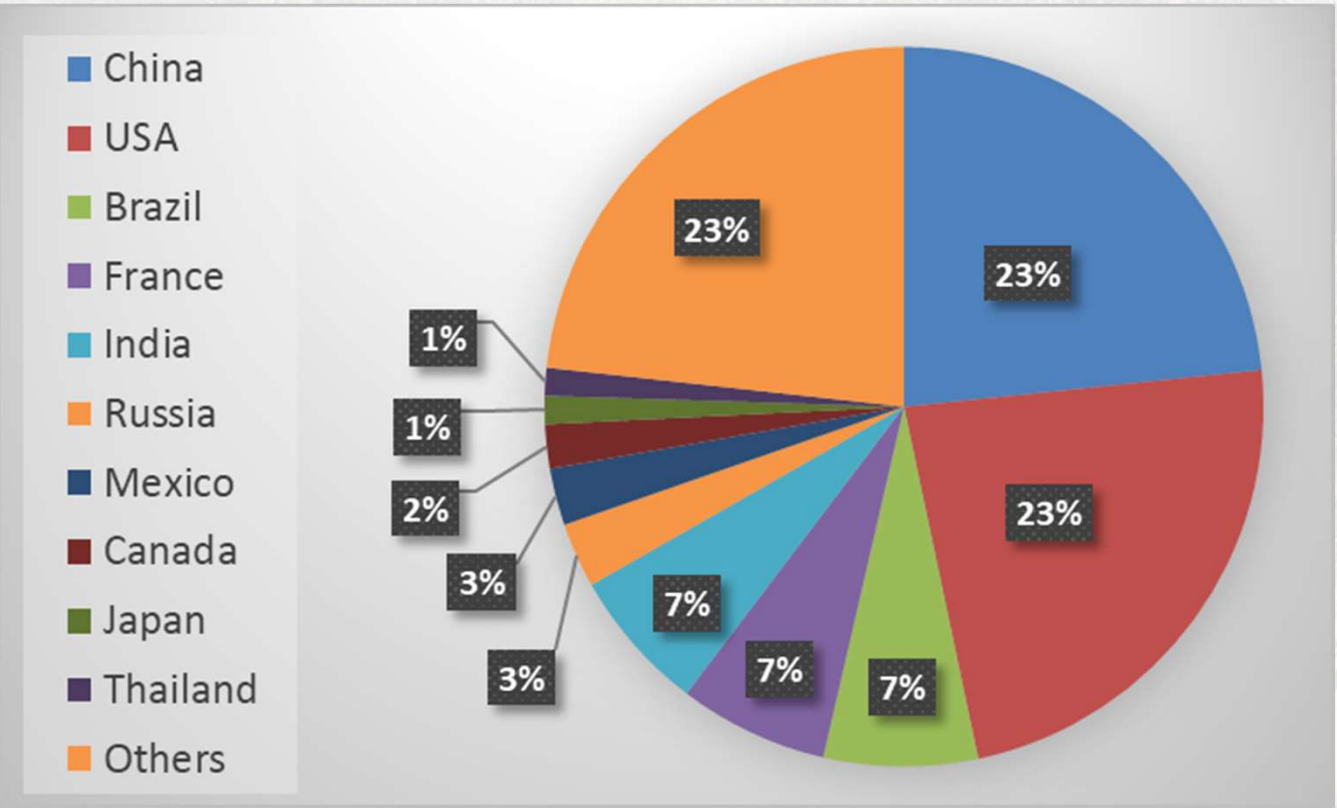
Techniques



Key Figures

Emulsion Key Figures

Top 10 countries





Webinar



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International Bitumen Emulsion Federation

WINTER WEBINAR

"Upstream of Bitumen Emulsion: Chemistry, Equipment, R&D"

Speakers from IBEF members:

Friday 16th December
13:00 - 15:00 (Paris Time)

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Spring Webinar

"100 years of Bitumen Emulsion all over the world"



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International Bitumen Emulsion Federation

WEBINAR agenda details

July 1st, 2022 - 10am to 1pm (Paris Time)
Cité TF - 80 avenue des Champs Elysees - 75008 Paris
and also via Microsoft Teams (see link below)

The environmental aspects of bitumen emulsion and what such technology can bring as far as carbon footprint is concerned.

- Introduction
- LCI - Eurobitume 2012-2022
- SEVE: Introduction to SEVE and Spanish experiences
- Australian roadtrip to reduce carbon
- Emulsion chipsealing: generating conscious capital
- Emulsion for COPR in CNAs
- Conclusion: challenges for the IBEF

Q. Baumgardner
I. Lancaster
C. Lacey & D. Andrieu
A. d'Angelo
S. Beasley
S. Charriot
E. Comet

WEBINAR

July, 1st 2022



IBEF Annual Meeting Seminar

6- WEBINAR

- Introduction: Carl Robertus (ExCo)
- Emulsions in Brazil: Luiz Henrique Teixeira (ABEDA)
- Emulsions in Mexico: Rosita Martinez (AMAAC)
- Emulsions in the USA: Kevin McGlumphy (AEMA)
- Emulsions in France: François Chaignon (SFERB)
- Global Success stories from an industry perspective: Carlos Rif (INGEVITY)
- Q&A: All



27th June 2021

Past Events



Next Events



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Winter Webinar
14th December 2023



CAPSA²³ | **13th CONFERENCE ON ASPHALT PAVEMENTS FOR SOUTHERN AFRICA**

LEADING-EDGE TECHNOLOGY TO UNDERPIN SUSTAINABLE ROAD PROVISION

15 - 18 OCTOBER 2023 - CHAMPAGNE SPORTS RESORT DRAKENSBURG



XXIGILA
GRANADA, 22-26 ABRIL 2024



AFPA 19th AFPA International Flexible Pavements Conference
Safely Paving the way to Carbon Zero
30th Oct - 31 Oct - 1st Nov 2023 | BCEC Brisbane QLD



8th E&E CONGRESS
EURASPHALT & EUROBITUME
19 - 21 JUNE 2024
BUDAPEST
HUNGARY



ISAET '24
8TH INTERNATIONAL SYMPOSIUM ON ASPHALT EMULSION TECHNOLOGY
NOVEMBER 4-6 | WASHINGTON D.C.



To join IBEF, send email to:

contact@ibef.net

Follow us on



A photograph of a road construction site. A yellow and black bitumen emulsion spreader is positioned on a road that has been recently treated with a dark, reflective coating. The road is flanked by tall, thin trees and dry grass. The scene is captured from a low angle, looking down the length of the road.

**Bitumen Emulsion is more
than 100 years old ...**

... and has a great future !!!



100 years

BITUMEN EMULSION

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