EAFS | STOCKHOLM 2022

9th EUROPEAN ACADEMY OF FORENSIC SCIENCE CONFERENCE

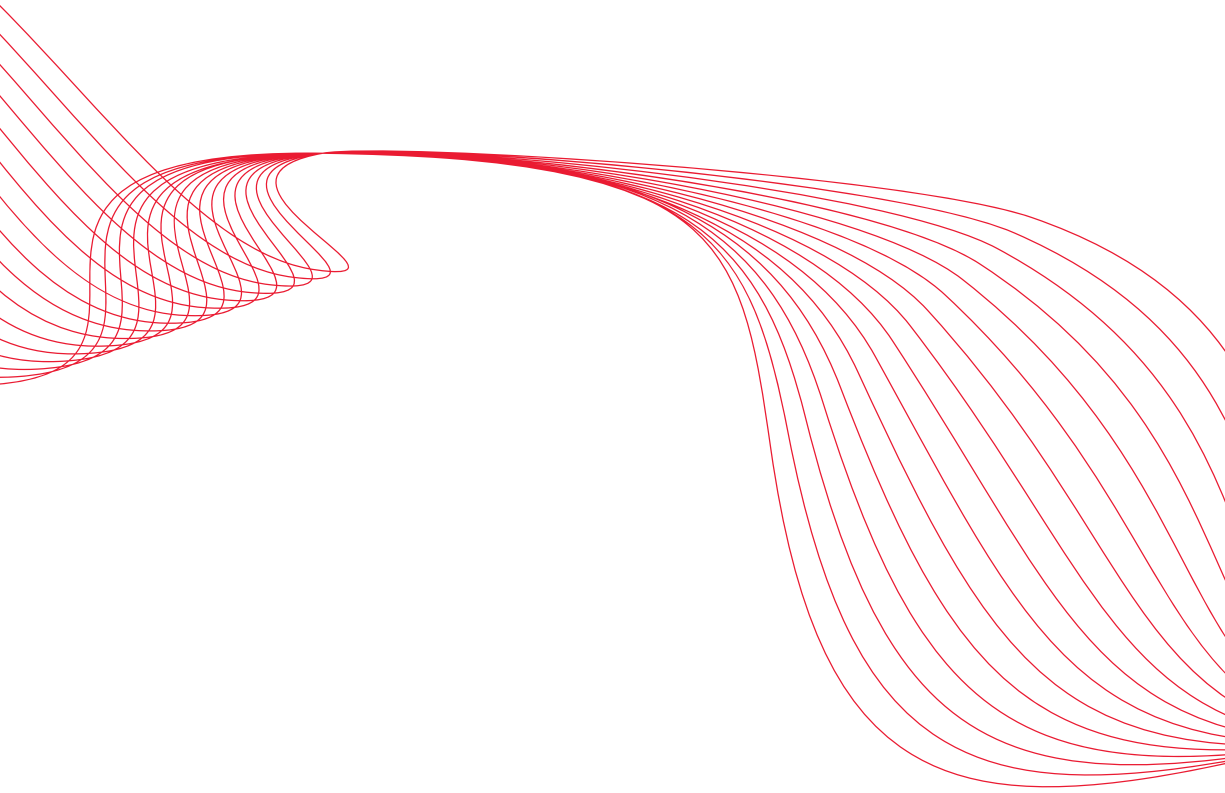
May 30 – June 3 2022

PROGRAM BOOK

MSAB
nuix
Chainalysis
eurofins
Forensic Services
GRIFFEYE
MetaSystems
ZEISS
LabVantage

EAFS | STOCKHOLM 2022

Together for a Safer World
PROGRAM BOOK



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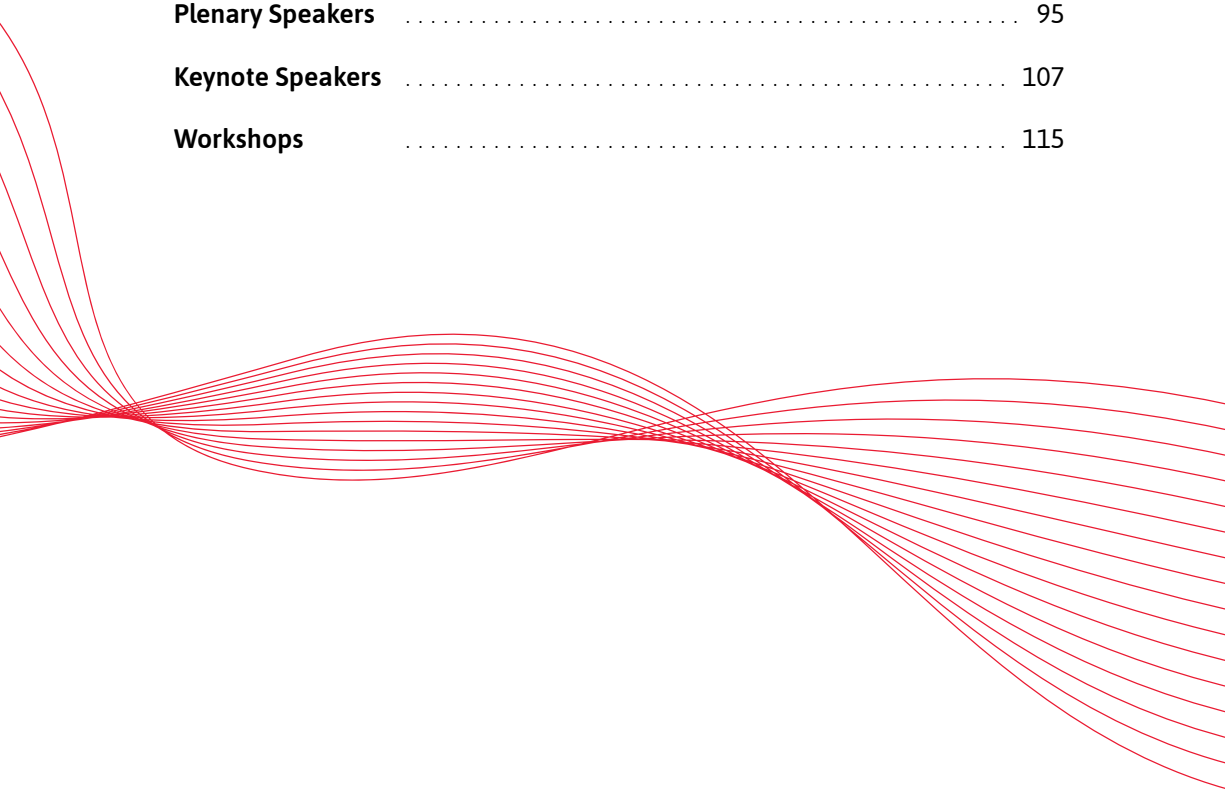

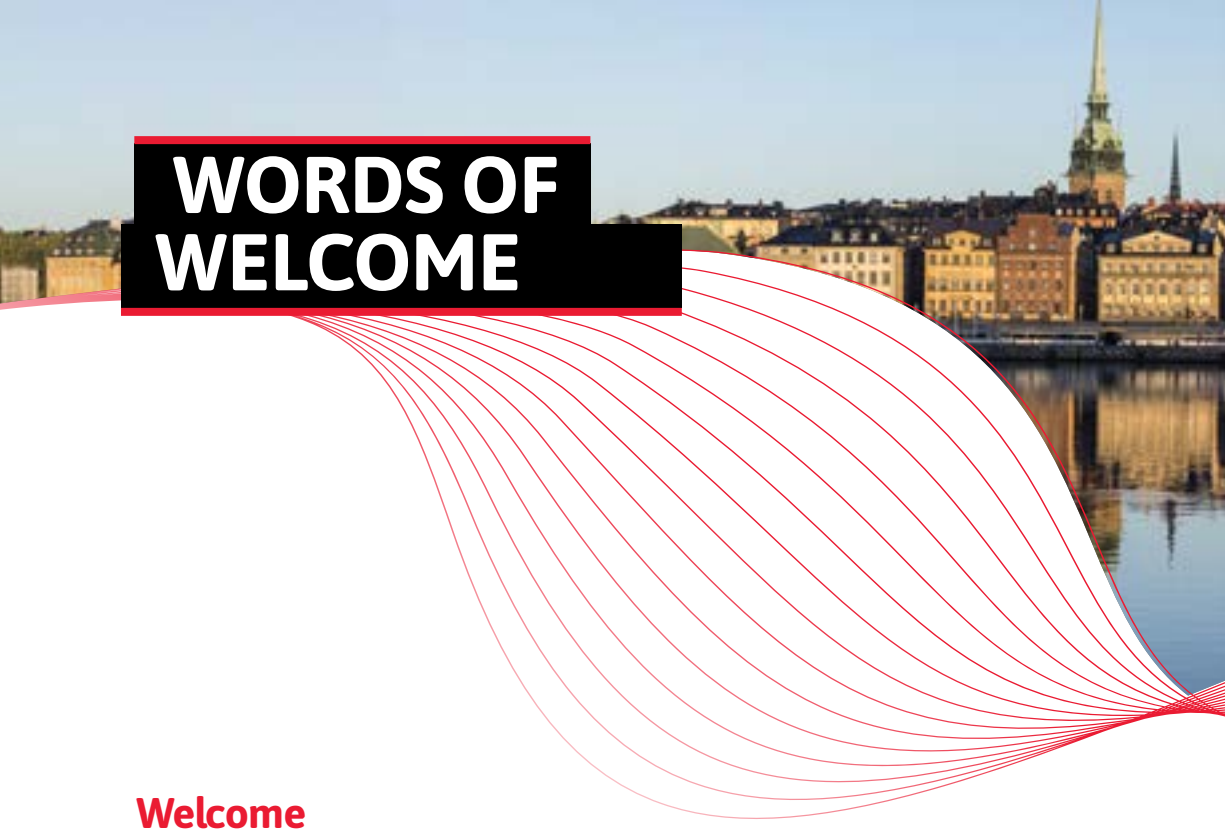

WORDS OF WELCOME

Welcome

The National Forensic Centre (NFC) of the Swedish Police Authority is honored to welcome you to the 9th European Academy of Forensic Science Conference in Stockholm, Sweden.

NFC, with its origin in the Swedish National Forensic Laboratory (SKL), has a long history in the European Network of Forensic Institutes (ENFSI). SKL was a founding member of ENFSI and has continued to support the network through active involvement in Expert Working Groups, Standing Committees and, during a number of years, also with members in the ENFSI Board. The network is important for our forensic experts and researchers as well as for quality assurance officers to exchange experience and to keep up-to-date with development within their areas of expertise. The result of the collaboration is important input in our daily case work and awareness of development of new techniques, methods and areas of expertise.

The motto of EAFS 2022, "Together for a Safer World", emphasizes the importance of collaboration and exchange of experience between colleagues in the global forensic science community. Joint research projects are one part of the collaboration, depending on engagement from several forensic organizations and important stakeholders/academia. The dissemination of results from a number of projects is part of the conference program.

During the week of 30th May – 3rd June, you will have the opportunity to take part in the scientific program during the days and social event during the evenings. I do hope your participation at the EAFS 2022 and the stay in Stockholm will be a memorable event.

Helena Trolläng
Head of Department, National Forensic Centre, and the host of EAFS 2022

Dear Colleagues,

On behalf of the EAFS 2022 Scientific Committee I'm honoured to welcome you to the 9th European Academy of Forensic Science, EAFS 2022.

Almost one year later than first announced, we can finally meet face to face again for an opportunity to share knowledge, connect with old and new colleagues, allow ourselves to inspire and get inspired, and advance the field of Forensic Science.

In the challenging times that we have seen and are currently experiencing, it is important to come together. I therefore believe that our conference moto, "Together for a Safer World" makes an important statement about the objectives and motivation for our field. The authors of the contributions for the EAFS 2022 conference clearly show, not only that they produce excellent science, but also that they are willing to share their findings for the purpose of improving the society on a global level. For this we are truly grateful.

At the EAFS 2022 the Scientific Program is organized according to Conference Tracks and sub-Tracks. These Tracks have been selected by the Scientific Committee to span the breadth of Forensic Science with the ambition to allow you as an attendee at the EAFS 2022 to easily navigate the conference program and find the presentations and posters that match your field of interest.

As a complement, we also have the conference Themes. The Themes have been our guiding star when selecting contributions to be presented at the EAFS 2022, as we believe they are among the most important areas in the future research and development within Forensic Science.

I would like to direct my deepest gratitude to the members of the EAFS 2022 Scientific Committee for their incredible support and devotion in putting together the EAFS 2022 conference. Without their hard work we would simply not have a conference.

On behalf of the Swedish Police Authority / National Forensic Centre (NFC) I sincerely hope that you will enjoy the EAFS 2022. And, when you leave Stockholm, I wish that you will be re-energized and inspired to continue our joint effort to develop the Forensic Science area, for a safer world!

Dr. Emil Hjalmarson
Chairman of the EAFS 2022 Scientific Committee.

Arranging EAFS 2022

It is fantastic to finally meet at EAFS 2022 in Stockholm!

The time period from ENFSI Annual Meeting in Rome, in May 2018, when the National Forensic Centre (NFC) was elected to host the 9th European Academy of Forensic Science (EAFS), to the final arrangements of EAFS 2022 has been challenging. The global pandemic situation, with all related uncertainties and tragedies, made it inevitable to postpone the conference from 2021 to 2022. However, in February 2022, the number of registrations to the conference started to increase rapidly and more abstracts were submitted, making it possible to create an interesting scientific program. Thank you all!

To our colleagues at the Netherlands Forensic Institute in The Hague (EAFS 2012), the Institute of Criminalistics in Prague (EAFS 2015) and the Institut National de Police Scientifique in Lyon (EAFS 2018) – we are sincerely grateful for your support by sharing experience from hosting earlier EAFS conferences.

Thanks to all engaged colleagues within NFC and Meetagain (Conference Bureau) in making all the practical details fall into place.

Christina Bertler Edlund
Chairperson of EAFS 2022
Organising Committee

COMMITTEES

Scientific Committee

Dr. Emil Hjalmarson
National Forensic Centre – NFC,
Swedish Police Authority, Sweden

Associate Professor Ricky Ansell
National Forensic Centre – NFC,
Swedish Police Authority
Linköping University, Sweden

Dr. Peter Bergström
National Forensic Centre – NFC,
Swedish Police Authority, Sweden

Dr. Thomas W. Biermann
Bundeskriminalamt – BKA, Germany

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Netherlands Forensic Institute – NFI,
The Netherlands

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U.S. Government-Department of
Commerce, National Institute of
Standards and Technology-NIST, US

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University of Lausanne- UNIL, Switzerland

Professor Christophe Champod
University of Lausanne- UNIL, Switzerland

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Netherlands Forensic Institute – NFI
University of Twente, The Netherlands

Dr. Nada Milisavljevic
Migration and Home Affairs – DG HOME, European Commission

Dr. Tereza Neocleous
University of Glasgow, UK

Professor Niamh Nic Daeid
University of Dundee, UK
Leverhulme Research Centre for Forensic Science – LRCFS

Associate Professor Anders Nordgaard
National Forensic Centre – NFC, Swedish Police Authority
Linköping University, Sweden

Dr. Bart Nys
National Institute of Criminalistics and Criminology – NICC, Belgium

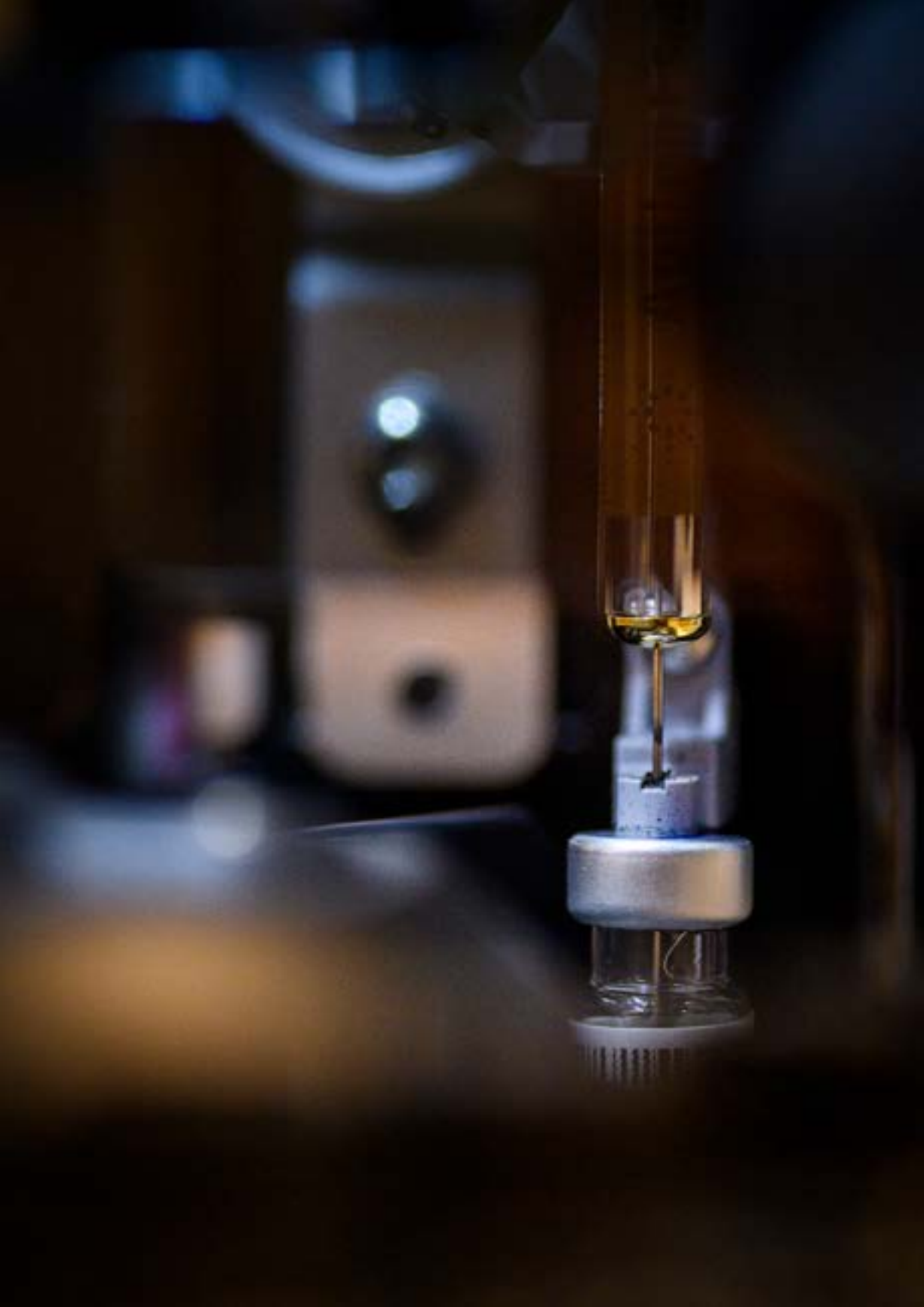
Dr. Tapani Reinikainen
National Bureau of Investigation – NBI, Finnish Police, Finland

Distinguished Professor Claude Roux
University of Technology Sydney – UTS, Australia Centre for Forensic Science, Australia

Dr. Justice Tettey
United Nations Office on Drugs and Crime – UNODC

Professor Arian van Asten
Co van Ledden Hulsebosch Center – CLHC
University of Amsterdam,
The Netherlands

Honorary Professor Sheila Willis
Leverhulme Research Centre for Forensic Science – LRCFS
University of Dundee, UK



The EAFS 2022 Editorial Board

To further promote the scientific work presented at the EAFS 2022 conference there will be a special issue of the Forensic Science International Journal. In this special issue authors of accepted contributions for the EAFS 2022 are invited to submit a full paper of their conference abstract.

The papers will be made available on Open Access.

Editorial Board Chair and Guest Editor

Didier Meuwly,
Netherland Forensic Institute / University of Twente

Members of the Editorial Board

Ingo Bastitch
Bundeskriminalamt (BKA)

Niamh Nic Daeid
University of Dundee

Zeno Geradts
Netherland Forensic Institute, University of Amsterdam

Johannes Hedman
National Forensic Centre / Swedish Police Authority, Lund University

Emil Hjalmarson
National Forensic Centre / Swedish Police Authority

Lena Klasén
Swedish Police Authority, Linköping University

Bela Kubat
University of Maastricht

Martin Josefsson
National Forensic Centre / Swedish Police Authority, Linköping University

Pierre Margot
University of Lausanne

Didier Meuwly
Netherland Forensic Institute, University of Twente

Tereza Neocleous
University of Glasgow

Claude Roux
University of Technology Sydney

Justice Tettey
UNODC

Sheila Willis
University of Dundee

Organising Committee (OC)

Christina Bertler Edlund, NFC	Chairperson of EAFS 2022 OC
Emil Hjalmarson, NFC	Chairperson of EAFS 2022 ScC
Maria Holmkvist, NFC	Conference Coordination
Micaela Rogersten, NFC	Conference Administration
Ann-Louise Flisbäck, CD*	Communication Officer
Izabela Szpakowska Lindsjö, FAD**	Financial Officer

NFC colleagues/former colleagues that were a part of the OC during the early planning stage; Lena Perlelund Sandqvist, Helena Ekberg, Erik Kronsell, and Elin Axelsson as well as Susanne Karlsson from CD*

**CD Communications Department within the Swedish Police Authority*
*** FAD Financial Affairs Department within the Swedish Police Authority*

Organisation

Organisation of the Conference

- Organisation Committee
- Meetagain, Conference Bureau

Organisation of the Conference Program

- Scientific Committee

European Projects

Simon Dunne, NFC	Communication and coordination
Micaela Rogersten, NFC	Administrative support

Workshops

Jonas Malmborg, NFC	Communication and coordination

Abstracts and Program Books

Maria Ledin and **Simon Dunne**, NFC	Concept
Jens Sjunnesson, Modulmedia	Layout

Photography

Photographer **Minna Ridderstolpe**, CD*, with assistance of **Maria Holmkvist**, **Andreas Carlsson** and **Helene Andersson** (coordination of photo sessions) as well as NFC staff involved with the local management of the photo sessions.

**CD Communications Department within the Swedish Police Authority*

FOLKETS HUS
CITY CONFERENCE CENTRE
DANSENS HUS

CONFERENCE INFORMATION

The MSAB Ecosystem: An all-round approach to Mobile Forensics

Join the MSAB Workshop at EAFS 2022 to see how MSAB Ecosystem tools and solutions help our customers face and address modern Mobile Forensics challenges in time and resource efficient ways.

- Participants will be offered to solve a number of hands-on investigation and analysis tasks!

MSAB

Trusted Partner in Digital Forensics

Conference Information

The biggest European Forensic Science Event – The European Academy of Forensic Science Conference – is held in Stockholm, Sweden, on May 30th – June 3rd June 2022.

EAFS 2022 is organised by the National Forensic Centre (NFC), a department within the Swedish Police Authority, under patronage of the European Network of Forensic Science Institutes (ENFSI).

The objective of this conference is to explore developments in the forensic science community reflecting the needs of law enforcement agencies combating organised crime and terrorism as well as new areas of criminal activities. The conference program comprises topics such as digital transformation of the forensic process, forensic data science, forensic human factors, forensic social responsibility and forensic technology innovation.

Different forensic science areas are covered under the Tracks and Sub-tracks that define the main structure of the conference program. For more information about Tracks and Sub-tracks please see page 42.

Over 1 000 European and international practitioners, researchers, managers and stakeholders of the forensic science community alongside EU agencies, academia, industrial partners and international organisations will participate during the conference.

All verbal and written content during the conference is in English and no translations are given to other languages.

Poster Sessions

Posters accepted to the EAFS 2022 are presented in the Auditorium. The poster abstracts are included in both the printed conference abstract book and available in the conference app where the corresponding poster reference number can be found.

All posters are on display for the entire conference, from Monday to Friday. There are three designated poster sessions scheduled in the EAFS 2022 conference program. Authors of posters have been assigned one slots as their prime session, based on the track their contribution is in. At this session the author is requested to be available at their poster. In additions, authors are encouraged to attend additional poster sessions to present their work. Below you will find what tracks are presented in each of the poster session.

Poster Session 1, *Tuesday, 14:35 to 15:25*

- Chemistry
- Forensic Medicine and Toxicology
- Forensic Management

Poster Session 2, *Wednesday, 10:40 to 11:40*

- Digital Evidence,
- Marks, Impressions and Biometric Traces,
- Scene of Crime

Poster Session 3, *Thursday, 10:30 to 11:30*

- Chemistry (part of Material sub-track)
- DNA/Forensic Genetics
- Legal & Ethical Aspects
- Forensic Statistics
- European Perspective

Please note that some poster has been assigned a different poster session then that of their Track. Check the abstract book for the presentation date of specific posters.

Student poster session

At EAFS 2022 we have invited Master and Bachelor student to present their work in Forensic Science. The student posters are on display from Wednesday to Friday in Room NL-358. On Friday there is a special Student Poster session between 9:45 and 11:45 where representatives from the EFAS 2022 Scientific Committee will present the award for best student poster.

ENFSI Meetings

A number of ENFSI meetings are arranged in parallel with the EAFS 2022 conference. The meetings are closed sessions, only for members registered through a registration portal dedicated to each group, respectively. Guest participation is by invitation only.

ENFSI Annual Meeting 2022

ENFSI Annual Meeting 2022 is arranged on 29th May- 31st May. The meeting will be held in the Pillar Hall, Norra Latin.

The agenda/program for the meeting is managed by the ENFSI Board and Secretariat. The program of the meeting is sent to Annual Meeting participants (permanent representatives) before the meeting and is not published in the program book of the conference.

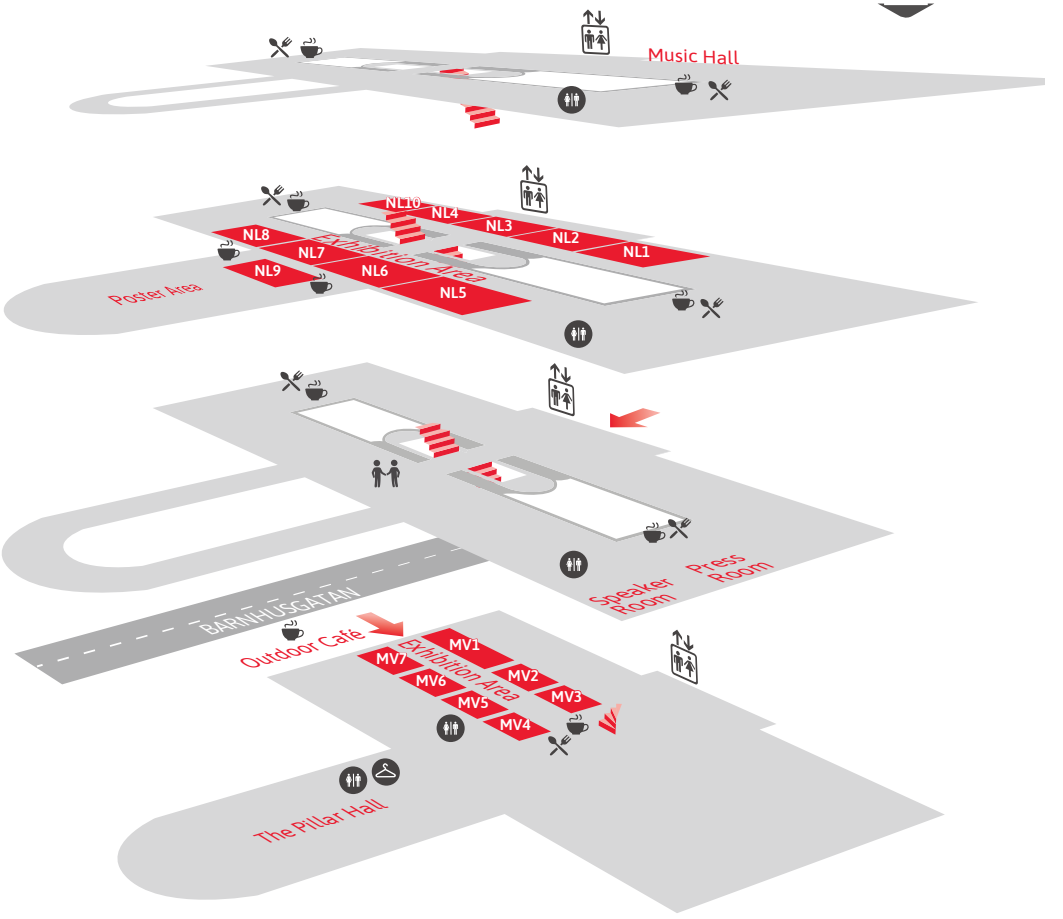
ENFSI Expert Working Group Meetings

The agenda/program is managed by the Steering Committee of each Working Groups. The program is sent by the Steering Committee to the members of the Working Groups and is not published in the program book of the conference.
Three ENFSI Expert Working Groups have their meeting in parallel with the conference. The meetings are planned as follows;
Fire and Explosion Investigation Working Group (FEIWG) - in the afternoons of Wednesday 1st June and Thursday 2nd June. (Room 503+504 in Folkets Hus)
Forensic Information Technology (FIT) – in the morning of Friday 3rd June (Room 300 in Folkets Hus)
Marks – in the morning of Thursday 2nd June (Room 307 in Folkets Hus)

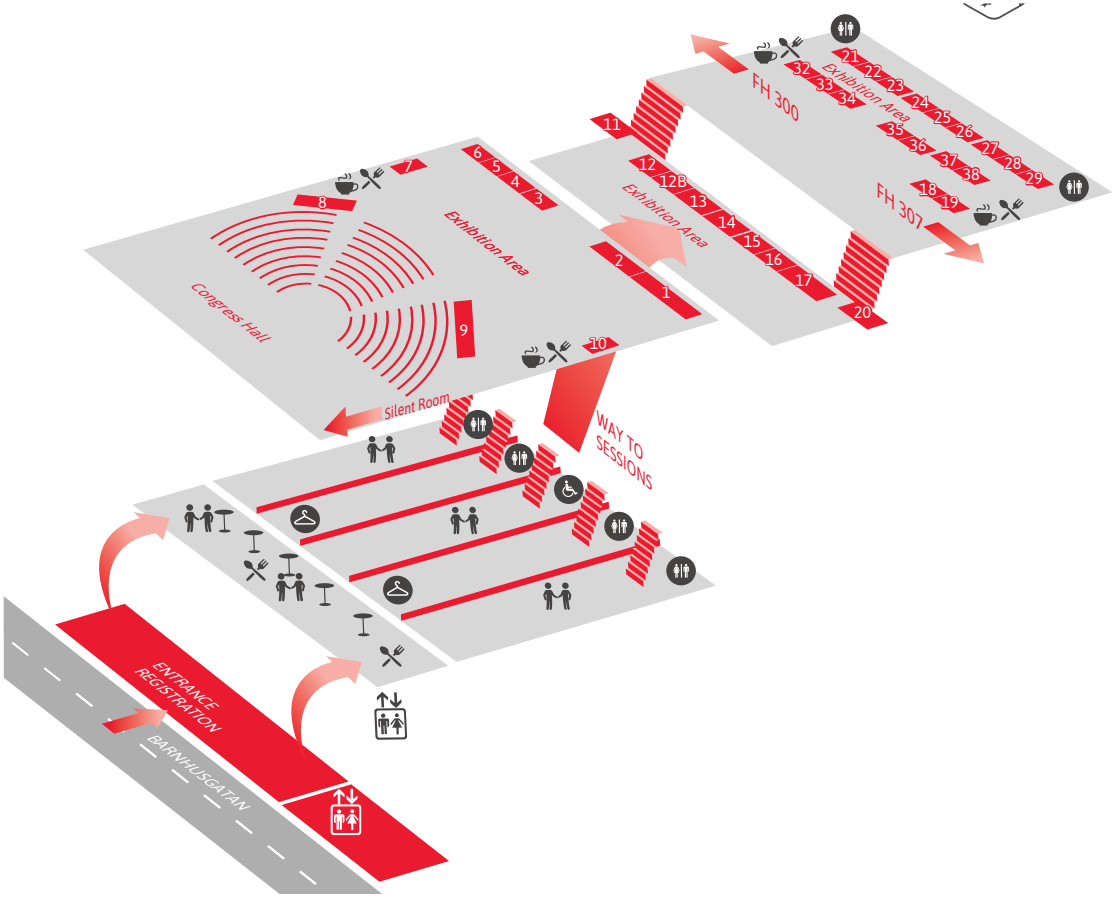
ENFSI Standing Committee and Liaison Group Meetings

The two Standing Committees within ENFSI have arranged meetings with their Liaison Groups. The Standing Committees are responsible for the agenda/program of their meetings and the program will not be published in the program book of the conference.
Quality and Competence Liaison Group (QCLG) – during Wednesday 1st June (Room 307 in Folkets Hus)
R&D Liaison Group (R&D LG) – in the morning of Tuesday 31st May (Room 203+204 in Folkets Hus)
For more information about ENFSI please visit www.enfsi.eu

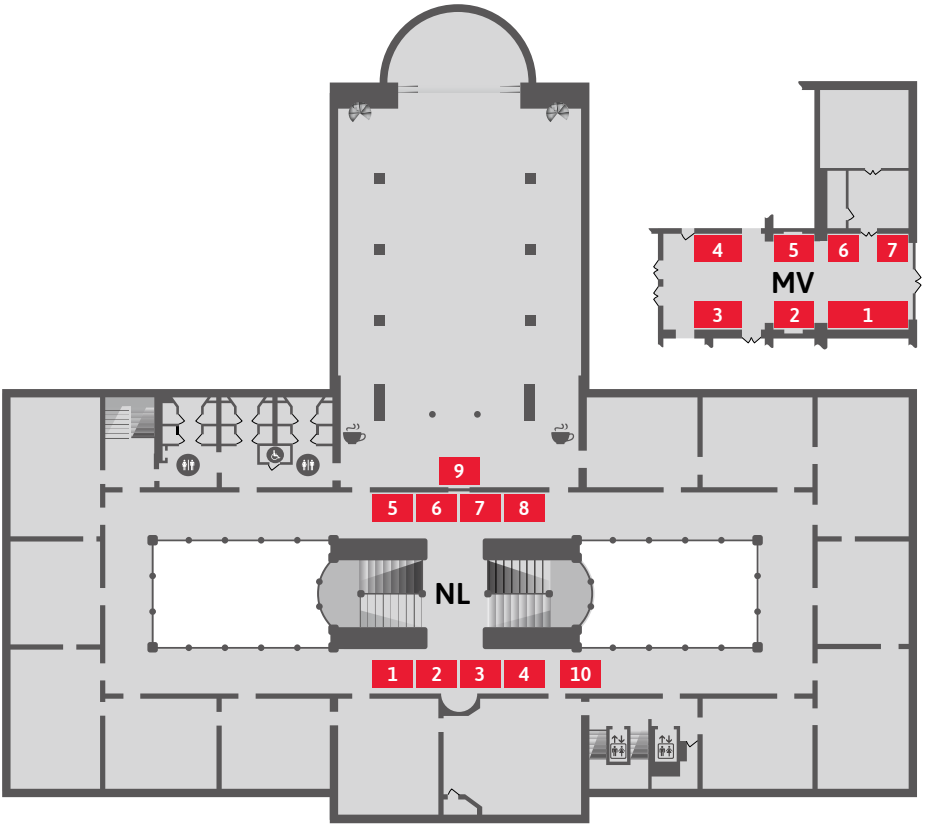
Floorplans Norra Latin



Floorplans Folkets Hus



Exhibitor Areas

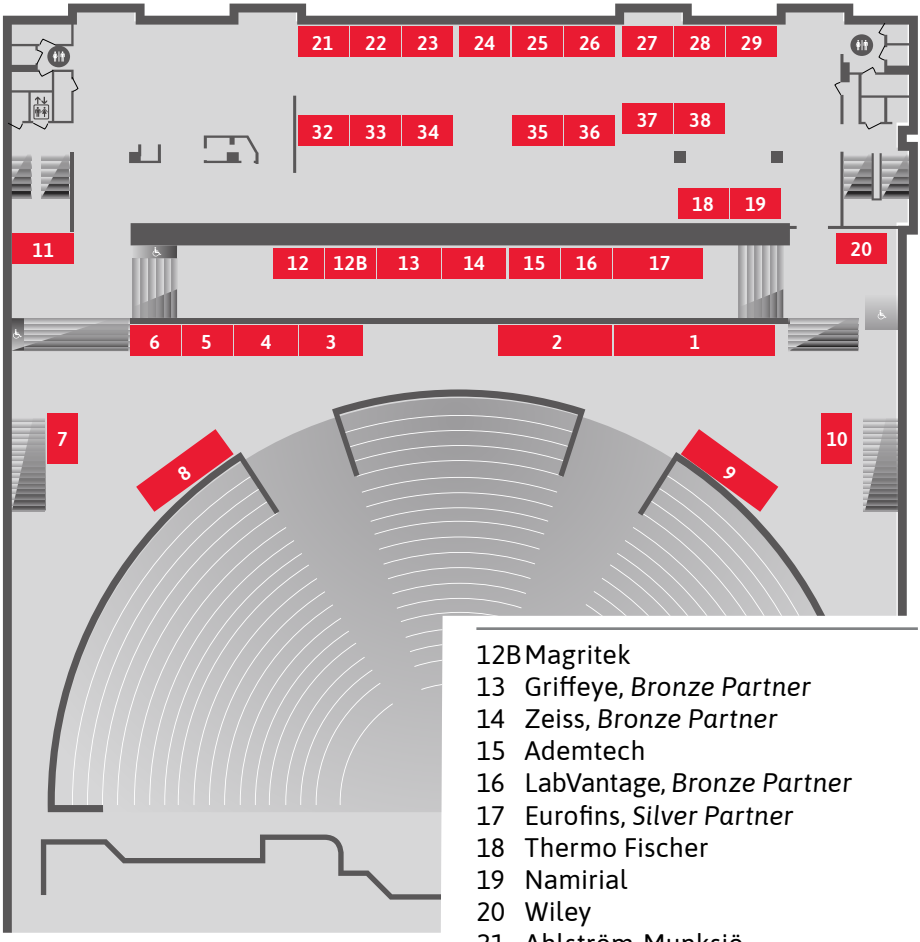


Exhibitors Floor 1

MV1 Forensic Experts (Data Experts)
MV2 Exterro
MV3 BVDA/Rofin Australia
MV4 Verogen
MV5 Qiagen
MV6 EMT Electronics
MV7 European Forensic Institute

Exhibitors Floor 3

NL1 Bruker Nano
NL2 Xceltis
NL3 908 Devices
NL4 Panacea Cooperative Research
NL5 Oxford Wave Research
NL6 LAB Sweden
NL7 University of Amsterdam
NL8 Cyclopes
NL9 ENFSI
NL10 Paliscope

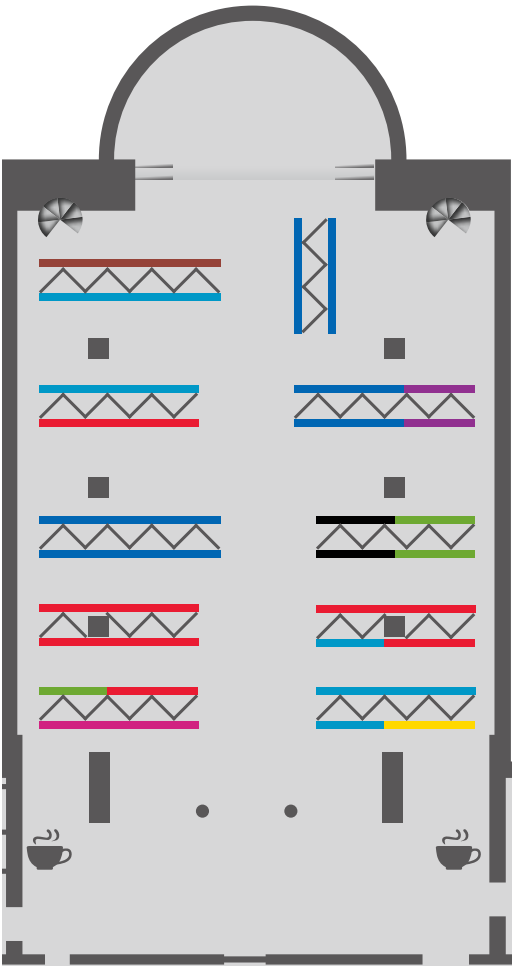


Exhibitors

1 MSAB, *Diamond Partner*
2 Nuix, *Gold Partner*
3 The Swedish Police Authority/ National Forensic Centre (NFC)
4 Promega
5 Combitech
6 Axoscience/Sperm Tracker
7 Verisis
8 Chainalysis, *Silver Partner*
9 CLP Systems
10 Attestor
11 MetaSystems, *Bronze Partner*
12 Seratec
12B Magritek
13 Griffeye, *Bronze Partner*
14 Zeiss, *Bronze Partner*
15 Ademtech
16 LabVantage, *Bronze Partner*
17 Eurofins, *Silver Partner*
18 Thermo Fischer
19 Namirial
20 Wiley
21 Ahlström-Munksjö
22 Hansken (NFI)
23 Riscure
24 IDA Infront
25 Leica Geosystems
26 Leica Geosystems
27 Tecan Nordic
28 Foster & Freeman
29 Foster & Freeman
32 Arttic
33 LECO
34 Micro Electronics Systems
35 Copan
36 Grayshift
37 Arttic
38 Metrohm Nordic

Floorplan Poster Session

For more information about the Poster Sessions, please see page 18.



Poster Sessions

Poster Session 1

- Chemistry Presentation
- Forensic Medicine and Toxicology
- Forensic Management

Poster Session 3

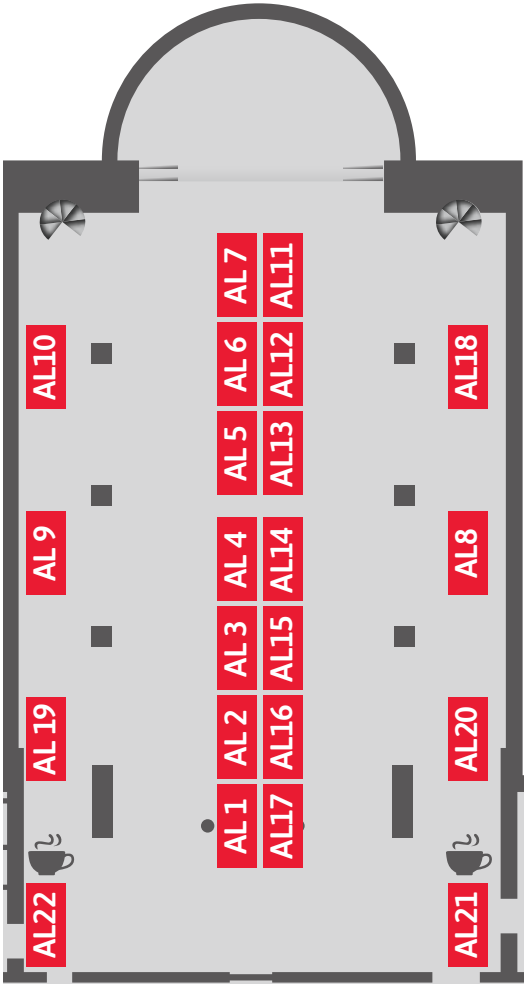
- Digital Evidence
- Marks, Impressions and Biometric Traces
- Scene of Crime

Poster Session 3

- DNA/Forensic Genetics
- Legal & Ethical Aspects
- Forensic Statistics
- European Perspective
- Chemistry Presentation
  (part of Material sub-track)

Floorplan European Day Exhibitors

For more information about the European Day, please see page 37.



European Day Exhibitors

AL 1	Aligner
AL 2	Starlight
AL 3	PopAi
AL 4	Cyclopes
AL 5	Inherit
AL 6	Exerter
AL 7	Formobile
AL 8	Grace
AL 9	Inspectr
AL10	Locard
AL11	Risen
AL12	Shuttle
AL13	Roxanne
AL14	CTC
AL15	Uncover
AL16	EACTDA
AL17	Asgard
AL18	Europol IL
AL19	ENFSI
AL20	ENFSI
AL21	ENFSI
AL22	ENFSI

PHOTO: SWEDISH POLICE

Symbols, Colors and Abbreviations

Building

Folkets Hus

Norra Latin

Theme

Digital Transformation of the Forensic Process

Forensic Data Science

Forensic Human Factors

Forensic Social Responsibility

Forensic Technology Innovation

Other

Project/Cooperation has received funding from the European Union

Track

- Chemistry
- Digital Evidence
- DNA/Forensic Genetics
- Forensic Medicine and Toxicology
- Marks, Impressions and Biometric Traces
- Scene of Crime
- European Perspective
- Forensic Management
- Forensic Statistics
- Legal & Ethical Aspects
- Plenary Speaker

Abbreviation

FH	Folkets Hus (building)
KN	Keynote Speech
NL	Norra Latin (building)
OP	Oral Presentation
PP	Poster Presentation
PS	Plenary Speech
WS	Workshop

EAFS
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2022

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>
> Senior Investigator, Police Scotland

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SOCIAL ACTIVITIES

Social activities

During the conference, you are invited by the City of Stockholm to a reception at the City Hall of Stockholm. The City Hall is commonly known as the venue of the Nobel Prize Banquet which is held on 10th of December every year. You will enjoy the conference dinner at the Vasa Museum which offers a unique atmosphere. Vasa was a battleship that capsized on its maiden voyage in Stockholm in 1628. The ship was salvaged in 1961. Today, Vasa is the world's best preserved 17th century ship and the most visited museum in Scandinavia. The two evenings events will give you a flavour of the attractions of Stockholm.

Please note! Advance booking is mandatory for all social activities and the seats are limited.

Stockholm City Hall

The City of Stockholm is hosting a reception in Stockholm City Hall. The reception begins at 19.00, please be on time. A standing light buffet will be served, and you may be able to join a guided tour of the City Hall.

Monday 30th May 19.00
Welcome reception in Stockholm City Hall
Dress Code: Smart casual
Address: Hantverkargatan 1
international.stockholm.se

Partners & Exibitors Evening

The purpose of the evening event is to create an opportunity for partners and exhibitors to communicate and interact with the participants at the EAFS 2022 Conference.

Finger food and drinks will be served as the participants mingle among the partners and exhibitors.

There will also be an opportunity for partners to give short presentations during the evening event. The Partners' and Exhibitors' Evening will take place at Folkets Hus (Conference Venue).

Tuesday 31st May 17.00-19.00
Dress code: Business casual/casual
Address: Barnhusgatan 12-14

The Vasa Museum

The conference dinner will take place next to the Vasa ship, the world's only preserved 17th century ship in the most visited museum in Scandinavia. The Vasa ship capsized and sank in Stockholm in 1628. After 333 years on the sea bed, the mighty warship was salvaged and the voyage could continue. A guided tour will be offered before the dinner.

To be noted: since the ship needs certain conditions to be preserved, the temperature in the building is kept to, at most 20 degrees Celsius.

Thursday 2nd June 20.00
Conference dinner at Vasa Museum
Dress Code: Business casual/casual
Address: Galärvarvsvägen 14
www.vasamuseet.se

Stockholm/Sweden info

Modernity meets tranquility. Trend-setting restaurants close to an idyllic archipelago. Welcome to a city where it is easy to breathe – and to feel your pulse.

Stockholm is the capital and largest city of Sweden, built on 14 islands connected by 57 bridges. With few high-rise buildings, Stockholm has a unique landscape. It's mostly church spires that pierce the otherwise almost unobstructed skyline. Over 30 per cent of the city area is made up of waterways and another 30 per cent is parks and green spaces.

Things to do around Stockholm
Find the summer guide here:

LabVantage Forensic Navigator
Full forensic life cycle evidence and data management
VISIT STAND # 16
LabVantage®
SCAN ME

Exchanging Money

The currency in Sweden is called the Swedish crown, or the krona (SEK). Credit and debit cards are accepted almost everywhere in Stockholm. Forex is the place to exchange money or buy SEK. They are found throughout the city at 17 locations, including Arlanda Airport, the central railway station, NK department store and the Old Town. They have good exchange rates.

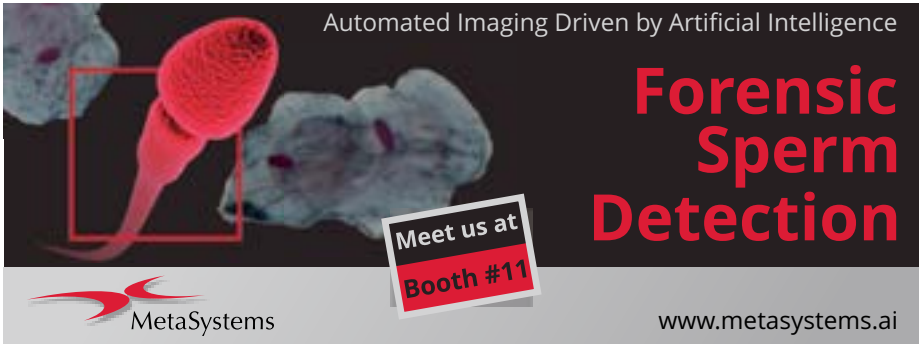
Curiosa

The official language in Stockholm is Swedish. However, many people in Sweden speak English.

Electrical sockets (outlets) in Sweden are one of the two European standard electrical socket types, and usually supply electricity at between 220 and 240 volts AC.

Please visit www.visitstockholm.se to learn more about Stockholm

and www.visitsweden.se to learn more about Sweden!



Diamond Partner

MSAB

Gold Partner

nuix

Silver Partner

Chainalysis

eurofins | Forensic Services

Bronze Partner

GRIFFEYE

LabVantage®

MetaSystems

ZEISS

Exhibitors

Organisation	Booth number
908 Devices	NL3
Ademtech	15
Ahlstrom-Munksjö Germany	21
ARTTIC	32+37
Attestor Forensics	10
Axoscience	6
Bruker Nano	NL1
BVDA/Rofin Australia	MV3
Carl Zeiss Microscopy	14
Chainalysis	8
CLP System	9
Combitech	5
Copan Italia	35
Cyclopes	NL8
EMT Electronics	MV6
ENFSI	AL21
Eurofins	17
European Forensic Institute	MV7
Exterro UK	MV2
Forensic Experts Scandinavia	MV1
Foster + Freeman	28+29
Grayshift	36
Griffeye Technologies	13
Ida Infront	24
LAB Sweden	NL6
LabVantage Solutions	16

Organisation	Booth number
LECO Nordic	33
Leica Geosystems	25+26
Magritek	12
MetaSystems	11
Metrohm Nordic	38
Microelectronic Systems	34
MSAB	1
Namirial	19
Nederlands Forensisch Instituut	22
Nuix	2
Oxford Wave Research	NL5
Paliscope	NL9
Panacea Cooperative Research	NL4
Promega	4
QIAGEN	MV5
Riscure	23
Seratec	12B
Tecan Nordics	27
The Swedish Police Authority / National Forensic Centre (NFC)	3
Thermo Electron Sweden	18
University of Amsterdam	NL7
Verisis	7
Verogen	MV4
Wiley	20
Xceltis	NL2

Outdoor Café Partners

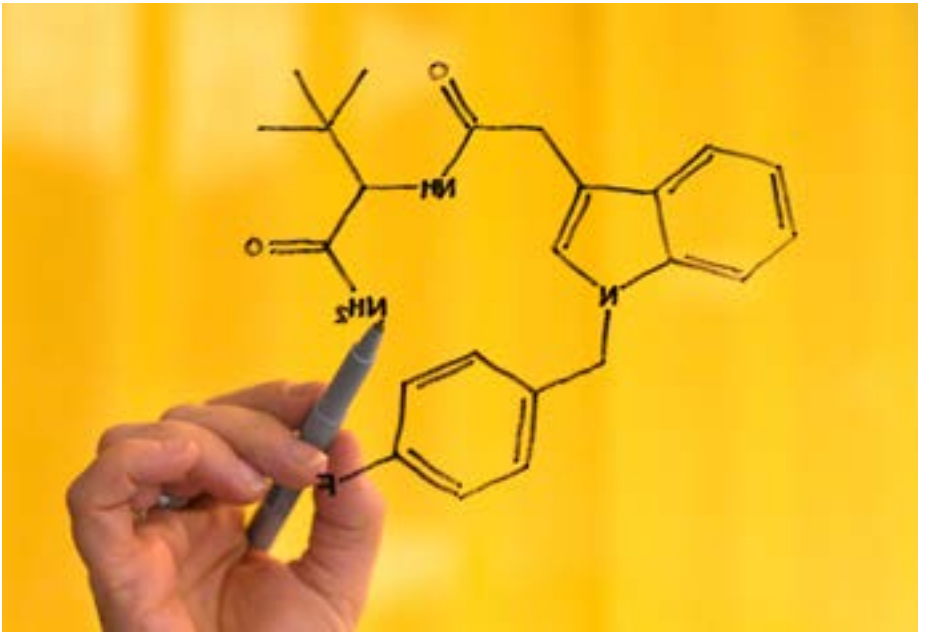
DELL Technologies

Phadebas

Management Day

On EAFS 2022 Management Day we put a special focus on the management questions relevant to the field of Forensic Science. As needs of users of forensic result change or increase, due to new types of crime or new policies within the judicial system, the Forensic Science community needs to share results from projects, reflect on how to meet future demands, explore best practice related to management of the process, e.g. effective case handling routines, communication strategies with the end user of results, handling requirements of quality and competence assurance.

During the Management Day we aim to create an opportunity for the attendees of EAFS 2022 to exchange knowledge and experience from dealing with the challenges in forensic management. Throughout the day our plenary speakers, keynotes, workshops, and presenters of oral and poster contributions will share their experience and knowledge within this field. In the afternoon's panel debate we aim to reflect on and discuss one of the most relevant topics within this field. The topic will also be further addressed within the Management Track *(see page 10)*, with activities Monday to Wednesday.



European Day

EAFS 2022 in Stockholm includes a European Day, on Thursday 2nd June, promoting the work supported by EU funding over the last decade and at present, disseminating results and discussing future challenges for the forensic community and law enforcement.

The aim is to;

- facilitate a broader awareness of projects delivered, their results and benefits.
- explore and discuss the way forward for cooperation in forensic R&D to support law enforcement agencies.

The program of the European Day will start with an introductory speech followed by plenary speakers, a panel discussion, keynote presenters, oral and poster presentations and workshops. In the Auditorium, EC-funded projects and initiatives will exhibit their activities during the day.

*The **European Day** of the EAFS 2022 Conference is co-funded by the European Union's Internal Security Fund – Police.*

Grant Agreement number: 101051099 — CERTAIN-FORS — ISFP-2020-AG-IBA-ENFSI

eurofins | Forensic Services

Fast DNA & *Rapid* Drugs

Reducing the time from offence to conviction

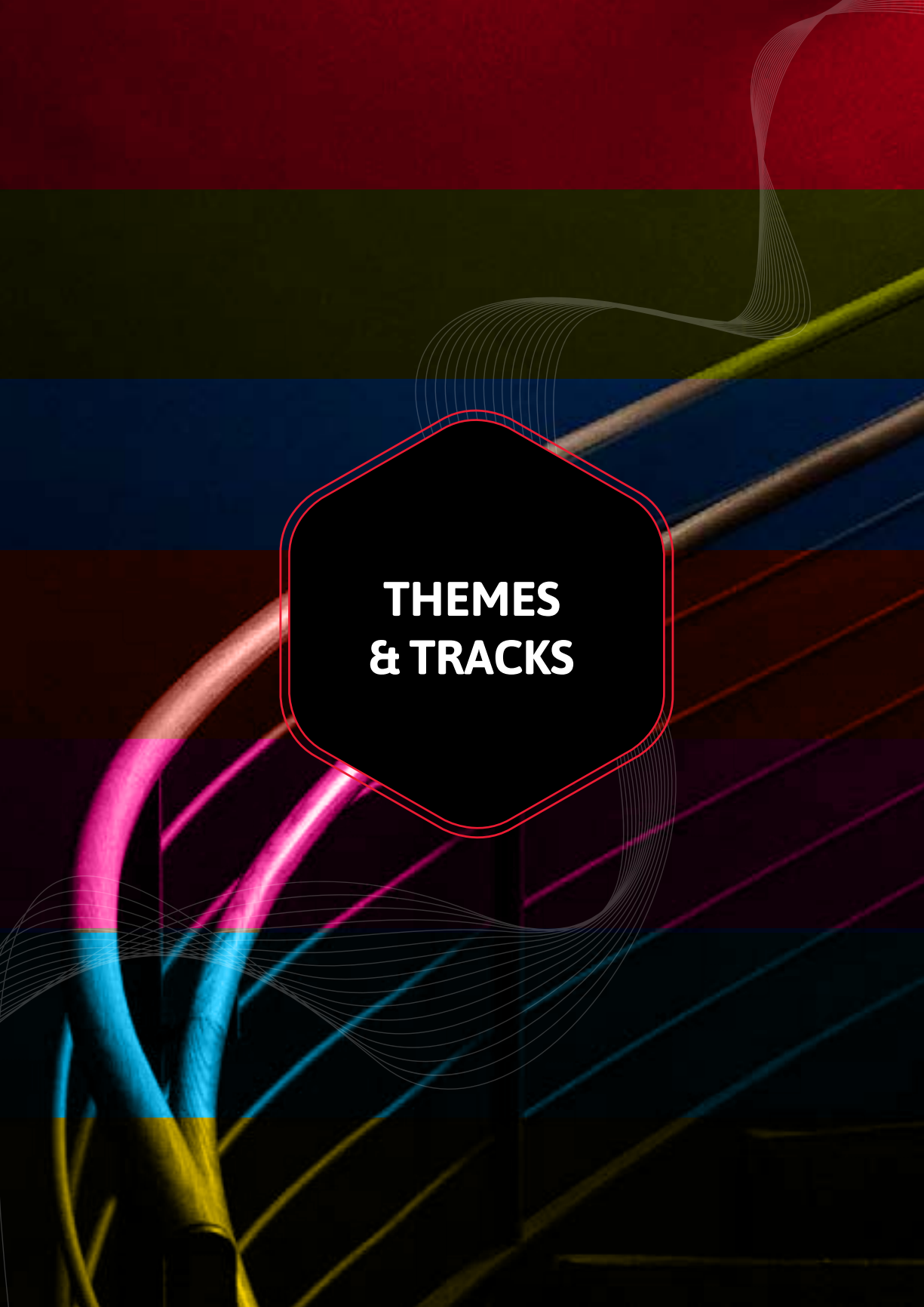
Working in partnership with local police forces and forensic institutes, Eurofins has challenged the end-to-end process in Drugs and DNA casework to dramatically reduce the time taken from the offence being committed, to offenders facing the judicial system:

- DELIVERING early identification of suspects and offenders.
- SUPPORTING police in making our streets safer.
- IMPROVING public confidence in policing and criminal justice.

METROPOLITAN POLICE

POLITIE

For more details visit the Eurofins EAFS booth.
Or contact us: EFSenquiries@eurofins.co.uk


THEMES
& TRACKS

Themes

The conference Themes, as selected by the Scientific Committee, highlight some important areas for the future of Forensic Science. The Themes have served as a compass in the development of the scientific program. It is our ambition that EAFS 2022 will contribute to further develop these areas.

We have offered the authors of abstracts for EAFS 2022 to, if they so wish, indicate one or more themes that they consider to be linked to their contribution. As many of our authors have chosen to exercise this opportunity we encourage everyone to explore areas outside of their field of expertise with help of the theme symbols displayed for each abstract.

Digital Transformation of the Forensic Process

New digitalized products and services are entering our society in many ways as new technologies and innovations become available at an increasing rate. The digital transformation itself is not new, but the effects and impact of the transformation are continuously finding themselves into new areas. It is not only about technology, the transformation also involves people, workflow, judicial and ethical considerations etc.

In the field of Forensic Science, we now have the opportunity to improve our way of working by harvesting the benefits from the digital transformation. The question is, how do we accomplish this in a way that will fit the forensic processes and workflows? How do we bring all colleagues on board? And, how do we make sure that we maintain quality and a scientific approach within our forensic processes?

Forensic Data Science

Data Science is an interdisciplinary field that combines the use of mathematical methods, data and expert knowledge. It is a fundamental part of Forensic Science as a tool for the evaluation of evidence and to communicate the findings. The increased capabilities to capture, store, share and process data, propelled by the development of Artificial Intelligence and Big Data, are enabling Forensic Scientists to automate and address more complex problems. There is no field within Forensic Science that will not experience the impact of this development.

What are the future opportunities in Forensic Data Science? How do we share data and knowledge in order to benefit from these opportunities?

Forensic Human Factor

A fundamental aspect of Forensic Science is the evidence-based approach to the treatment and evaluation of forensic findings. In order to make the forensic outcomes as indisputable and inarguable as possible, there needs to be a common understanding among experts and scientists of the scientific principles upon which our conclusions are based.

From recovery processes, hypothesis generation, context information management, calibration of the human-based interpretation to the presentation of results in a scientifically correct, understandable and unbiased way, the impact of human factors within forensic science is essential and unavoidable.

Forensic Social Responsibility

Forensic Science has an important role in our judicial systems. Our environment and our capabilities are affected not only by technological advancements and laws, but also by ethics and societal perceptions. In many situations technology or science itself is not a limiting factor. Balancing concepts such as personal integrity and technical capabilities is becoming increasingly important.

The challenge of balancing the need for efficient Forensic Science services to the judicial system while maintaining and assuring quality and future-proofing is a question that many Forensic Science laboratories faces. How we manage this delicate balancing act will be important for how Forensic Science develops in the future.

Forensic Technology Innovation

Forensic Science spans across a broad range of areas, each with constant development of new technologies and solutions. Many of these achievements have the potential to become valuable tools in the hands of Forensic Scientists. But how do we work actively with innovation to make sure that new technologies are made available in Forensic Science? What are the areas with the largest potential impact? How can we ensure an efficient innovation uptake?

These are questions that will need to be addressed within the Forensic Science community in order to stay relevant and continue to support the judicial system.

Tracks

Selected by the EAFS 2022 Scientific Committee the conference tracks are selected to cover the field of Forensic Science covered by the ENFSI Expert Working Groups (EWG). The ambition is to help attendees at EAFS 2022 find the sessions that match their areas of interest and navigate the conference. For some of our tracks the sub-tracks will provide further guidance to specific fields.

Chemistry

Chair: Professor Arian van Asten
MFS/CLHC, Univ. of Amsterdam, The Netherlands
Co-chair: Associate Professor Simon Dunne, *NFC, Sweden*

Routed in a single science domain the actual application of chemistry in a forensic setting is very diverse. Various forensic expertise areas focus on the criminal misuse of chemical knowledge and products (drugs, explosives and ignitable liquids and fire debris analysis). Other forensic experts specialize in the chemical characterization of microtraces such as fibers, glass, paint and gunshot residues that are often generated and exchanged during incidents and can constitute important evidence linking individuals to crime scenes and criminal activities. Finally, chemistry is applied in the laboratory to assist the forensic investigation, for instance to visualize latent traces such as fingermarks. At EAFS 2022 the Chemistry sub-tracks have been defined according to forensic area, reflecting how chemistry expertise is typically organized in forensic institutes.

Sub-tracks:

- **Drugs**
- **Environment**
- **Explosives**
- **Fingermark Development**
- **Gunshot Residues (GSR)**
- **Ignitable Liquids and Fire Debris Analysis**
- **Material (Paint and Glass/Textile and Hair)**
- **Trace, Transfer and Persistence**

Digital Evidence

Chair: Professor Zeno Geradts, *NFI/Univ. of Amsterdam, The Netherlands*
Co-chair: Philip Engström, *NFC, Sweden*

This Track focuses on all kinds of digital evidence, ranging from any kind of computer system, digital imaging, forensic visualizations as well as using artificial intelligence. The rate of change is high in this field since new devices are being developed with ever increasing tempo. This also creates a challenge to implement quality assurance since the amount of data generated is growing rapidly and millions of apps are developed in many versions. At the same time explainability in court is always a factor that needs to be considered.

Sub-tracks:

- **Artificial Intelligence**
  Any form of artificial intelligence used in digital forensics, including topics such as bias and explainability as well as ethical implications, big data analysis and use of systems for analysis of huge amounts of data – implemented in a reliable and valid way for forensic purposes.
- **Computer, Cybercrime, Malware and Database Forensics**
  The wide range of computer and database forensics as well as forensic investigation of malware and ransomware attacks. The sub-track also includes other forms of cybercrime such as anti-forensic software and decryption and data hiding.
- **Digital Imaging**
  Any form of forensic digital imaging, such as manipulation detection, interpretation, video recovery, comparison and camera identification.
- **Forensic Visualization (VR, AR, 3D)**
  The use of technologies, such as virtual reality and augmented reality glasses, for 3D visualizations, e.g. as a tool for investigation or presentation in court.
- **Mobile Device, Network and Location Forensics**
  Examination of smartphones, other mobile and IoT devices, as well as the analysis of networks and related services.
- **Vehicle Forensics**
  The number of on-board systems and sensors in cars is rapidly expanding and information can be extracted from those for use, e.g. as evidence in Court.

DNA/Forensic Genetics

Chair: Dr. John Butler, *NIST, US*
Co-chair: Associate Professor Ricky Ansell, *NFC/Linköping Univ., Sweden*

The field of forensic biology and genetic profiling, including the analysis of human and non-human nucleic acids (DNA/RNA).

Sub-tracks:

- **Body Fluids**
  Search, recovery, characterisation, transfer and persistence of stains and cellular material (for subsequent nucleic acid analysis)
- **Disaster Victim Identification (DVI)**
  Aspects of genetic profiling as a tool for disaster victim identification
- **Evaluative DNA**
  Interpretation and evidentiary strength of DNA or RNA findings including statistics, mixture interpretation, and activity level propositions
- **Investigative DNA**
  Generating intelligence and investigative leads, including phenotyping & ancestry, investigative genetic genealogy, familial searches, and databases

Forensic Medicine and Toxicology

Chair: Professor Bela Kubat, *Maastricht Univ./NFI, The Netherlands*
Co-chair: Associate Professor Martin Josefsson,
NFC/Linköping Univ., Sweden

Forensic medical science can both contribute to and profit from the extensive knowledge in other forensic fields presented at this conference. In particular, in the much-discussed fields of physical child abuse or death in custody, novel psychoactive substances, human performance substances, forensic neuropathology, age estimation of injuries or innovative in vitro and in vivo models for predictions of drug action and toxicity, forensic medicine and toxicology play a key role.

Marks, Impressions and Biometric Traces

Chair: Professor Christophe Champod, *UNIL, Switzerland*
Co-chair: Professor Didier Meuwly, *NFI/Univ. of Twente, The Netherlands*

This Track focuses on the forensic examination of all types of marks and impressions (e.g. firearms, tools, footwear, garment and documents) and all types of biometric traces (e.g. friction ridge skin, face, speech, body, gait, handwriting and signature). Particular emphasis will be placed upon examiner-based and automatic approaches, reporting on the source and activity level inference and reporting on the intelligence, investigative and evaluative phase of the forensic process, together with multidisciplinary topics such as the combination of biometric traces or the combination of toolmarks and biological traces.

Sub-tracks:

- **Body and Gait**
- **Document, Handwriting and Signature**
- **Face Recognition**
- **Firearms and Tools**
- **Footwear and Garment**
- **Friction Ridge Skin**
- **Speaker Recognition**

Scene of Crime

Chair: Professor Niamh Nic Daeid, *LRCFS, Univ. of Dundee, UK*
Co-chair: Mike Groen *NFI/Leiden Univ., The Netherlands*

There are many competing priorities that crime scene investigators and forensic experts attending crime scenes must address including enabling a scientific approach to the scene investigation that maintains quality so that a reconstruction that is valid in science can be developed for the courts; ensuring that new technologies are implemented in a reliable and valid way; ensuring that technology and methods of practice used in crime scene training or competency testing are fit for purpose; understanding the impact of the developing digital technologies on crime scene investigation and its practitioners and understanding how crime scene examiners make decisions at crime scenes.

Sub-tracks:

- **Bloodstain Pattern Analysis**
  New developments in the recording and interpretation of blood pattern analysis.
- **Capturing the Crime Scene**
  New and emerging technologies used to capture the crime scene, e.g. laser scanning, hyperspectral cameras or other type of sensors.
- **Complex Scenes**
  Scientifically based investigations of complex scenes, for example DVI scenes or CBRN scenes.
- **Fire and Explosion Investigation**
  Recent developments in practices of fire and explosion scene investigations.
- **Forensic Archaeology and Anthropology**
  Recent developments in the use of forensic anthropology and archaeology in scene investigations.
- **Implementing New Technologies at Crime Scenes**
  How are new technologies introduced safely to crime scene investigations so as to be accepted in the Courts?
- **Trace Evidence and Interpretation**
  The detection, recovery, analysis and interpretation (including transfer, persistence, recovery and background abundance) of trace evidence and their relevance to the reconstruction of an alleged crime.
- **Training and Education for Crime Scene Investigators**
  Ensuring that training, education and competency testing is fit for purpose, fills the gaps and is educationally valid.

European Perspective

Chair: Dr. Bart Nys, *NICC, Belgium*
Co-chair: Dr. Nada Milisavljevic, *DG Home, European Commission*

Forensic science and crime fighting are ever more dependent on international collaboration on a global level and between all levels of authority. ENFSI – as implied in its very name – has always been very focused on European information exchange and cooperation between its member laboratories and this has been observed and recognised by the European Commission.

In this track collaborative projects primarily financed or co-financed by the European Commission will be presented to a broad audience of forensic practitioners, forensic researchers etc, thereby creating the opportunity for dissemination of results as well as finding new, both European and international, partners.

Forensic Management

Chair: Distinguished Professor Claude Roux, *UTS, Australia*
Co-chair: Honorary Professor Sheila Willis, *LRCFS, Univ. of Dundee, UK*

In recent years there is a trend for forensic science managers to be professional managers who may have little knowledge of the field before taking up the position. This section of the conference caters for all interested in the management of forensic science, whether forensic scientists or not.

Sub-tracks:

- **"Doing the Right Thing"**
  "Doing the Right Thing" invites speakers with views or reflections on what managers and all concerned need to do to ensure that forensic science remains fit for purpose in an ever-changing world. Innovation is frequently discussed, but many will recognise that moving from research to operation is not trivial, and the speakers have been encouraged to share their experiences or reflections. The importance of the scene, whether that be a location, a hard drive or a body, is acknowledged. Yet, the complexity of bureaucracy moves laboratory functions further away from the scene. This track addresses how to manage disruptive change.

- **"Doing Things the Right Way"**
  The concerns today include effectiveness, quality systems, coordination and above all, the people who deliver the various functions.

- **Education and Training**
  People are a vital component to the effective delivery of forensic science across the many different fields, models and jurisdictions. Education and continuing professional development (CPD) is the responsibility of management and that of the education and training providers and individuals. It is also recognised that some culture change must happen in forensic science, which is greatly facilitated by education.

Forensic Statistics

Chair: Associate Professor Anders Nordgaard,
NFC/Linköping Univ., Sweden
Co-chair: Dr. Tereza Neocleous, *Univ. of Glasgow, UK*

Probabilistic modelling and statistical inference with forensic data, including methods for prediction and decision-making. Machine learning methods comprising statistical inference applied to big datasets. Connections with data analysis in the field of digital evidence, evaluative DNA approaches, trace material evaluation and other instances of probabilistic-based interpretation.

Legal & Ethical Aspects

Chair: Dr. Justice Tettey, *UNODC*
Co-chair: Professor Niamh Nic Daeid, *LRCFS, Univ. of Dundee, UK*

The relationship between forensic science and the law is critical in supporting fair and transparent criminal justice systems, and thus enforcing the rule of law. Forensic science is experiencing rapid advances in the use of data science, machine and deep learning tools for both intelligence and evidence purposes, all of which require professional competence and ethics. This presents profound ethical challenges to both the legal and scientific communities on how and what data are retrieved, triaged, analysed and presented in our Courts while protecting human rights, ensuring the right to a fair trial and presenting evidence in a competent and ethical manner.

This track will see three fundamental questions being discussed:

- What are the challenges and ethical issues to the use of AI in legal processes and as an evidential tool?
- How do we rationalise the right to privacy of the individual and the use of their data in criminal cases?
- How do we address personal competence and ethical dilemmas in forensic science practice?

PROGRAM

Monday 30 May 2022

12:30 - 13:30	**WELCOMING LUNCH** *Lunch Areas*
13:30 - 14:30	**OPENING CEREMONY, CONGRESS HALL**
14:30 - 15:15	**Plenary Speaker, Congress Hall**
	PS001 - Forensic biometrics: Let's face it
	Christophe Champod and Didier Meuwly
15:15 - 15:50	**COFFEE/TEA** *Coffee Areas*
15:40 - 17:20	**Forensic Management - Doing the Right Thing (1)**
	House-Room: NL-Music Hall *Session chair: Niahm Nic Daied, UK*
15:40- 16:10	KN029 - The Dirty Dozen – understanding the 12 most common preconditions for human error
	Melissa Taylor
16:10 - 16:20	**BREAK**
16:20 - 16:40	OP225 - WHAT are the BARRIERS to FORENSIC SCIENCE PROFESSIONALISING?
	Sheila Willis
16:40 - 17:00	OP217 - Increased potential of forensics in sexual assault crime investigations
	Martina Nilsson
17:00 - 17:20	OP218 - Sexual assault kit backlog in Stockholm Police Region, Sweden - Project Victoria
	Eva Wettborg
15:40 - 17:20	**Chemistry - Drugs (1)**
	House-Room: NL-451 *Session chair: Luis Arroyo, US*
15:40 - 16:00	OP013 - Machine learning for the differentiation of positional NPS isomers with direct analysis in real time mass spectrometry
	Jennifer Bonetti

16:00 - 16:20	OP016 - NPS Identification in Forensic High-Volume Casework Laboratories: Chemical Challenges and Analytical Solutions
	Ruben Kranenburg
16:20 - 16:40	OP011 - International inter-instrument stability and chemometric analysis of mass spectral data for NPS isomer differentiation
	Jennifer Bonetti
16:40 - 17:00	OP022 - The development of methodologies for the identification of new synthetic cannabinoids
	Mia Abbott
17:00 - 17:20	OP021 - Synthetic cannabimimetics with cyclobutyl- and norbornyl methyl side chain – Pharmacological data and legislation
	Benedikt Pulver

15:50 - 17:00	**Scene of Crime - Forensic Archaeology and Anthropology (1)**
	House-Room: NL-357 *Session chair: Matteo Barrone, UK*
15:50 - 16:20	KN027 - Reconstructing Crime Scenes: An Archaeological Approach
	Mike Groen
16:20 - 16:40	OP267 - Towards a fully automatic approach to craniofacial superimposition
	Oscar Ibáñez
16:40 - 17:00	OP190 - The use of burial for temporary concealment of commodities by criminal entities
	Zoe Cadwell

15:50 - 17:20	**Chemistry - Fingermark Development (1)**
	House-Room: NL-453 *Session chair: Claude Roux, AU*
15:50 - 16:20	KN004 - The Progress and Promise of Forensic Chemical Imaging
	Maurice Aalders
16:20 - 16:40	OP034 - Towards the implementation of immunolabeling for fingermark development in a forensic laboratory - an overview
	Annemieke van Dam

CONTINUE ▶

16:40 - 17:00	OP033 - Lipid composition of Natural and Groomed fingermarks using GC/MS
	Ana Moraleda Merlo
17:00 - 17:20	OP032 - Fingermark development and visualisation methodologies on 'vegan' and Covid-19 preventive leather substrates
	Leisa Nichols-Drew

16:00 - 17:00	**Digital Evidence - Mobile Device, Network and Location Forensics (1)**
	House-Room: FH-300 *Session chair: Lena Widin Klasén, SE*
16:00 - 16:20	OP070 - A probabilistic approach to estimating cell service areas
	Wauter Bosma
16:20 - 16:40	OP073 - Bayesian evaluation of digital location evidence: case report of a homicide investigation
	Luisa Bassi
16:40 - 17:00	OP079 - Where your iPhone is not: issues with error and data visualisation in location-related evidence from iOS devices.
	Hannes Spichiger

16:00 - 17:00	**Forensic Medicine and Toxicology (1)**
	House-Room: NL-356 *Session chair: Martin Josefsson, SE*
16:00 - 16:20	OP116 - Investigating the consumption of illicit drugs and anti-inflammatory drugs (NSAIDs) during the coronavirus 2020 period
	Aline Gibson
16:20 - 16:40	OP109 - Drinks spiking – Gaps in reporting and conviction
	Lata Gautam
16:40 - 17:00	OP108 - Diclazepam metabolite interpretation
	Agatha Grela

16:00 - 17:20	Scene of Crime - Training and Education (1)
	House-Room: NL-361 *Session chair: Lorna Nisbet, UK*
16:00 - 16:20	OP203 - Police Recruit Gradual Exposure to Deceased Persons: task oriented & compassionate approach to death & traumatic scenes
	Amy van Bilsen
16:20 - 16:40	OP200 - Examination of Evidence Evaluation and Reporting in the Basic Training of Swedish Crime Scene Investigators
	Birgitta Rådström
16:40 - 17:00	OP202 - Learning on the field: A study of Quebec crime scene examiners' knowledge regarding the search for clues
	Vincent Mousseau
17:00 - 17:20	OP204 - Untapped ground - assessing best practices for soil sampling in Finland from forensic perspective
	Sami Huhtala

16:00 - 17:20	Marks Impressions and Biometric Traces - Face Recognition/Body and Gait (1)
	House-Room: NL-461 *Session chair: Bethany Growns, UK*
16:00 - 16:20	OP128 - Interpretation of scores from automatic face recognition systems for court purposes
	Maëlig Jacquet
16:20 - 16:40	OP127 - Automated facial recognition method implemented at NFC, Sweden
	Erica Hedberg
16:40 - 17:00	OP129 - Validating a score-to-LR model from an automated facial recognition software
	Johanna Tuvskog
17:00 - 17:20	OP121 - The persistence of knuckle creases through finger flexion for the identification of perpetrators from digital images
	Lilly Dan

CONTINUE ▶

16:20 - 17:20	Forensic Management - Doing Things the Right Way (1)
	House-Room: NL-353 *Session chair: Bart Nys, BE*
16:20 - 16:40	OP231 - Five tools to improve the quality of Ad Hoc experts
	Karien Van Den Doel
16:40 - 17:00	OP235 - The impact of a merger and Covid 19 on exhibit/ evidence submission to Forensic Science Ireland
	Marce Lee-Gorman
17:00 - 17:20	OP230 - Expertise and Professional Development for Forensic Scientists
	Sheila Willis

16:20 - 17:20	Forensic Medicine and Toxicology (2)
	House-Room: NL-359 *Session chair: Henrik Green, SE*
16:20 - 16:40	OP113 - Homicidal poisoning in Finland between 2000-2021 with special attention to a digoxin case
	Ilkka Ojanperä
16:40 - 17:00	OP114 - Homicidal poisoning in Sweden
	Denise Guggenheimer
17:00 - 17:20	OP105 - Beclin protein analysis in human cadaveric brain and muscle tissues for estimation of post-mortem interval
	Puneet Setia

Tuesday 31 May 2022

08:30 - 09:15	**Plenary Speaker, Congress Hall**
	PS002 - The Role and Value of the Forensic Science Laboratory in an Ever-Changing World
	Claude Roux
09:30 - 10:10	**Forensic Medicine and Toxicology (3:1)**
	House-Room: FH-300 *Session chair: Bart Latten, NL*
09:30 - 09:50	OP103 - Abusive Head Trauma (AHT) - time for a reappraisal
	John Gall
09:50 - 10:10	OP112 - Harnessing Thor's Hammer: Experimentally induced lightning trauma to human bone by high impulse current
	Patrick Randolph-Quinney
09:30 - 10:10	**Forensic Management - Doing the Right Thing (2:1)**
	House-Room: NL-Music Hall *Session chair: Tapani Reinikainen, FI*
09:30 - 09:50	OP224 - Transformation of the Digital Forensic and Investigation Process
	Hans Henseler
09:50 - 10:10	OP215 - Digital Forensics Sweden – a network that brings together Swedish expertise in digital forensics
	Lena Widin Klasén
09:30 - 10:10	**Chemistry - Gunshot Residues (GSR) (1:1)**
	House-Room: NL-253 *Session chair: Olivier Delémont, CH*
09:30 - 09:50	OP035 - In silico profiling: a novel machine learning approach to address complex source-level problems in GSR analysis
	Matteo D. Gallidabino
09:50 - 10:10	OP036 - Objectifying evidence evaluation for gunshot residue comparisons using machine learning on criminal case data
	Timo Matzen

CONTINUE ▶

09:30 - 10:10	Chemistry - Drugs (2:1)
	House-Room: NL-351 *Session chair: Pierre Esseiva, CH*
09:30 - 09:50	OP009 - Global collaboration in sharing analytical data - The NPS Data Hub
	Torsten Schoenberger
09:50 - 10:10	OP024 - Tools and Resources for Seized Drug Analysis
	Edward Sisco

09:30 - 10:10	Forensic Management - Doing Things the Right Way (2:1)
	House-Room: NL-353 *Session chair: Marce Lee-Gorman, IE*
09:30 - 09:50	OP232 - Forensic advisor: a place for the generalist in forensic science
	Sonja Bitzer
09:50 - 10:10	OP236 - The Influence of Marketisation on Forensic Science Provision in England and Wales: An empirical case study
	Karen McGregor Richmond

09:30 - 10:10	Scene of Crime - Forensic Archaeology and Anthropology (2:1)
	House-Room: NL-357 *Session chair: Dawnie Steadman, US*
09:30 - 09:50	OP183 - Forensic Anthropology in Sweden: An important tool in the aim to fully comply with the rule of law in murder cases
	Petra Molnar
09:50 - 10:10	OP182 - Differentiating between mechanical or thermal fractures
	Tristan Krap

09:30 - 10:10	Digital Evidence - Mobile Device, Network and Location Forensics (2:1)
	House-Room: NL-453 *Session chair: Zeno Geradts, NL*
09:30 - 09:50	OP074 - Have you been upstairs? On the accuracy of registrations of ascended and descended floors in iPhones
	Jan Peter Van Zandwijk

09:50 - 10:10	OP075 - Meet the world of darkphones. A modern, encrypted and stealth communication network.
	Matthieu Regnery
09:30 - 10:10	**Marks Impressions and Biometric Traces - Friction Ridge Skin (1:1)**
	House-Room: NL-461 *Session chair: Aldo Mattei, IT*
09:30 - 09:50	OP154 - Exploring the frequency of 'open fields' in friction ridge skin
	Caroline Gibb
09:50 - 10:10	OP158 - What makes an expert an expert?: psychological mechanisms and training in forensic feature-comparison expertise
	Bethany Growns
10:10 - 10:40	COFFEE/TEA *Coffee Areas*
10:40 - 12:10	**Forensic Medicine and Toxicology (3:2)**
	House-Room: FH-300 *Session chair: Bart Latten, NL*
10:40 - 11:10	KN013 - Infant Head Injury by Shaking Trauma – a biomechanical engineering perspective
	Arjo J. Loeve
11:10 - 11:30	OP118 - Machine learning techniques in forensic medicine
	Akos Dobay
11:30 - 11:50	OP106 - Challenges in forensic sciences – Condom evidence analysis: Case studies report
	Céline Burnier
11:50 - 12:10	OP120 - The Workload of a (new) Medical Examiner Service at an acute NHS hospital during the COVID-19 pandemic in the UK
	Jason Payne-James

CONTINUE ▶

10:40 - 11:50	Forensic Management - Doing the Right Thing (2:2)
	House-Room: NL-Music Hall *Session chair: Tapani Reinikainen, FI*
10:40 - 11:10	KN033 - The Forensic Science Laboratory of the French Gendarmerie (IRCGN) : An original and singular management.
	François Heulard
11:10 - 11:30	OP216 - Forensic casework using intelligence- challenges and possibilities
	Eva Wettborg
11:30 - 11:50	OP223 - Towards more relevance in forensic science research and education
	Céline Weyermann

10:40 - 11:50	Chemistry - Gunshot Residues (GSR) (1:2)
	House-Room: NL-253 *Session chair: Olivier Delémont, CH*
10:40 - 11:10	KN005 - Analysis and Interpretation of Organic and Inorganic Gunshot Residues: Lessons Learned from a Large Population Study
	Tatiana Trejos
11:10 - 11:30	OP037 - Survey of gunshot residue prevalence on the hands of individuals from various population groups in and outside Europe
	Amalia Stamouli
11:30 - 11:50	OP038 - The use of machine learning technology for the automatic characterisation of gunshot residue particles
	Bart Nys

10:40 - 12:10	Digital Evidence - Mobile Device, Network and Location Forensics (2:2)
	House-Room: NL-453 *Session chair: Zeno Geradts, NL*
10:40 - 11:10	KN008 - Modern mobile forensic techniques
	Aya Fukami
11:10 - 11:30	OP071 - Assessing evidence for shared ownership of two phones using a statistical model and call detail records
	Kim de Bie

11:30 - 11:50	OP076 - NuDetective 4.0: automatic detection of CSAM in Android phones
	Mateus Polastro
11:50 - 12:10	OP078 - The new challenges of seizures to maximize chance to recover data on locked encrypted devices
	Matthieu Regnery

10:40 - 11:50	**Marks Impressions and Biometric Traces - Friction Ridge Skin (1:2)**
	House-Room: NL-461 *Session chair: Leisa Nichols-Drew, UK*
10:40 - 11:10	KN016 - Toward Computational Algorithms in Forensic Fingermark Examination: Navigating a Path Forward
	Henry Swofford
11:10 - 11:30	OP155 - Human factors in forensic science: selecting forensic trainees based on natural skill
	Bethany Growns
11:30 - 11:50	OP152 - Error rates & collaborative exercises in friction ridge examination: getting rid of misinterpretations
	Aldo Mattei

10:50 - 12:10	**Forensic Management - Doing Things the Right Way (2:2)**
	House-Room: NL-353 *Session chair: Marce Lee-Gorman. IE*
10:50 - 11:10	OP228 - Designing forensic laboratory services
	Juha Lampinen
11:10 - 11:30	OP233 - Forensic guidance to investigators at Forensic stations, Police Region Stockholm, Sweden
	Mikaela Cruz Delgado
11:30 - 11:50	OP226 - Cold cases: where do we stand? A comparative study of practices in cold case investigations.
	Giulia Cinaglia
11:50 - 12:10	OP229 - Development of an FGG operational capability: an Australian perspective
	Alison Sears

CONTINUE ▶

10:50 - 12:10	Scene of Crime - Forensic Archaeology and Anthropology (2:2)
	House-Room: NL-357 *Session chair: Dawnie Steadman, US*
10:50 - 11:10	OP187 - Phosphorescence of burned human remains
	Tristan Krap
11:10 - 11:30	OP179 - Beyond the first body farm: research and development at the Forensic Anthropology Center, UT Knoxville, USA
	Lucia Elgerud
11:30 - 11:50	OP184 - Human decomposition trajectories in a cold, continental climate in Canada
	Agathe Ribéreau-Gayon
11:50 - 12:10	OP186 - Outdoor human decomposition in Sweden
	Clara Alfsdotter

10:50 - 12:10	Digital Evidence - Digital Imaging (1)
	House-Room: NL-451 *Session chair: Lena Widin Klasén, SE*
10:50 - 11:10	OP064 - Forensic body and gait analysis: Development and testing of a forensic interpretation framework for morphometric data
	Dilan Seckiner
11:10 - 11:30	OP062 - Analysis of external digital context data and its use in digital image authentication workflows.
	Patrick De Smet
11:30 - 11:50	OP063 - Confrontation Identification through Virtual Reality Technology: A Technical Setup
	Till Sieberth
11:50 - 12:10	OP066 - UNCOVER: Development of an efficient steganalysis framework for uncovering hidden data in digital media
	Helena Bruyninckx

11:00 - 12:10	Chemistry - Drugs (2:2)
	House-Room: NL-351 *Session chair: Pierre Esseiva, CH*
11:00 - 11:30	KN001 - Chemical Intelligence - impurity profiling in real time meets impurity profiling in real labs
	Simon Dunne
11:30 - 11:50	OP015 - Monitoring illicit drug use: added value from the chemical analysis of used syringes
	Elodie Lefrançois
11:50 - 12:10	OP018 - Profiling of the South African street drug "nyaope" using GC-MS.
	Michael Cole
12:10 - 13:25	LUNCH *Lunch Areas*
13:15 - 14:35	**Scene of Crime - Bloodstain Pattern Analysis (1)**
	House-Room: NL-253 *Session chair: Daniel Beaumont, UK*
13:15 - 13:35	OP166 - Lumiscene or Bluestar Forensic for visualizing latent/ invisible bloodstains?
	Minna Eriksson
13:35 - 13:55	OP167 - Use of micro-computed tomography imaging in the interpretation of bloodstain patterns within carpets
	Laura Hugh
13:55 - 14:15	OP165 - Expirated blood –a study of expiration patterns
	Justus Läsker
14:15 - 14:35	OP163 - Breaking with trends in forensic dating: A likelihood ratio-based approach for bloodstains age determination
	Alicja Menżyk

CONTINUE ▶

13:15 - 14:55	Scene of Crime - Forensic Archaeology and Anthropology (3)
	House-Room: NL-357 *Session chair: Eugenia Cunha, PT*
13:15 - 13:35	OP181 - Determining the suitability of pigs as human analogues for post-mortem lipid analysis
	Sharni Collins
13:35 - 13:55	OP180 - Comparison of desiccation of human and pig tissue via lipid analysis
	Alisha Deo
13:55 - 14:15	OP185 - Mapping decomposition: non-destructive detection of simulated body fluids in the shallow subsurface
	Pier Matteo Barone
14:15 - 14:35	OP189 - Profiling the volatile organic compounds released from human remains covered with lime
	Bridget Thurn
14:35 - 14:55	OP188 - Potential of simultaneous extraction of metabolites and lipids from bones for PMI estimation
	Noemi Procopio

13:15 - 14:35	Chemistry - Ignitable Liquids and Fire Debris Analysis (1)
	House-Room: NL-453 *Session chair: Tatiana Trejos, US*
13:15 - 13:35	OP040 - Application of GC QuickProbe as a screening tool for forensic fire debris analysis
	Briana Capistran
13:35 - 13:55	OP042 - Gasoline comparison in fire debris analysis: A case-study illustrating complications and prospects.
	Leo Peschier
13:55 - 14:15	OP043 - Source inference of gasoline traces: study of the combined contribution of molecular and isotopic compositions
	Denis Werner
14:15 - 14:35	OP044 - Study of the influence of matrix on the source inference process of ignitable liquids by a chemometric approach
	Insaf Ben Terdayet

13:25 - 14:35	**Forensic Management - Doing the Right Thing (3)**
	House-Room: NL-Pillar Hall *Session chair: Martina McBride, IE*
13:25 - 13:55	KN028 - Essential strategic, operational and enabling reforms to implement a forensic operating model for the contemporary criminal and security environment
	Simon Walsh
13:55 - 14:15	OP219 - Shifting forensic science development from the organisation to the discipline
	Céline Weyermann
14:15 - 14:35	OP220 - Survey on the fitness for purpose of the standard ISO17025
	Sheila Willis

13:35 - 14:35	**Chemistry - Drugs (3)**
	House-Room: NL-351 *Session chair: Marc Parilla Pons, BE*
13:35 - 13:55	OP010 - Illuminating Electrochemical Forensic Evidence
	Lynn Dennany
13:55 - 14:15	OP020 - Selective and sensitive LSPR enhanced fluorescent ZnSe/In2S3@AuNP nanobiosensor for cocaine detection
	Kathryn Burton
14:15 - 14:35	OP005 - Electrogenerated luminescence the future strategy for drug detection: making light work of complex matrices
	Kelly Brown
14:35 - 15:25	**Poster Session 1 House-Room: NL-Auditorium**
	Chemistry, Forensic Medicine and Toxticology, Forensic Management
14:35 - 15:25	**COFFEE/TEA** *Coffee Areas*
15:25 - 16:10	**Plenary Speaker, Congress Hall**
	PS003 - 'Customer' perspectives on forensic science
	Gillian Tully
16:10 - 17:10	**Panel Debate 1, Congress Hall**

CONTINUE ▶

Wednesday 1 June 2022

08:30 - 09:15	Plenary Speaker, Congress Hall
	PS004 - "I'm not sure that you understood what I think it was that I just said" - the critical importance of communication
	Niamh Nic Daeid

09:30 - 10:40	DNA/Forensic Genetics (1:1)
	House-Room: FH-300 *Session chair: Ricky Ansell, SE*
09:30 - 10:00	KN011 - Reflections on 10 years of activity level reporting; where to from here?
	Bas Kokshoorn
10:00 - 10:20	OP081 - An investigation into the substrate variables impacting DNA transfer, persistence, and recovery in forensic casework
	Deborah A. Hughes
10:20 - 10:40	OP101 - Utility of trace DNA: An analysis of historical casework data
	Marie Morelato

09:30 - 10:40	Forensic Management - Doing the Right Thing (4:1)
	House-Room: NL-Pillar Hall *Session chair: Sheila Willis, UK*
09:30 - 10:00	KN030 - Innovation for the forensic questions of tomorrow
	Annemieke De Vries
10:00 - 10:20	OP221 - The 10 year Odyssey of the Netherlands Register of Court Experts
	Dyon Deckers
10:20 - 10:40	OP222 - The challenges of working in forensic archaeology and anthropology field in Spain.
	Sofia Rodriguez Lopez

09:30 - 10:40	Chemistry - Drugs (4:1)
	House-Room: NL-353 *Session chair: Simon Dunne, SE*
09:30 - 10:00	KN002 - Real time analysis of illicit drugs, an opportunity to cope with the trend toward the decentralization of forensic capabilities.
	Pierre Esseiva
10:00 - 10:20	OP006 - Exploring the added value of portable devices in the field of illicit drugs analyses
	Marc Wermelinger
10:20 - 10:40	OP007 - Forensic intelligence through instant non-destructive analysis of falsified medicines via ultra-portable NIR technology
	Hervé Rais

09:30 - 10:40	Scene of Crime - Fire and Explosion Investigation (1:1)
	House-Room: NL-361 *Session chair: Benny Thomsen, DK*
09:30 - 10:00	KN018 - Forensic science means science – how to thrive in the future by cutting the edge together
	Eva Ljungkvist
10:00 - 10:20	OP177 - Should forensic fire investigation undergo a digital transformation?
	Olivier Delémont
10:20 - 10:40	OP201 - Is it possible to do a good Fire investigation in Virtual Reality? Investigation In Real Life vs Virtual Reality
	Benny Thomsen

09:30 - 10:40	Marks Impressions and Biometric Traces - Firearms and Tools (1:1)
	House-Room: NL-451 *Session chair: Nicole Richetelli, US*
09:30 - 10:00	KN014 - Forensic judgments and computer-based methods: Validity, reliability and bias
	Erwin Mattijssen

CONTINUE ▶

10:00 - 10:20	OP132 - Current state of the art of the forensic investigation of 3D-printed firearms
	Stefan Schaufelbühl
10:20 - 10:40	OP143 - When 1 ≠ 1, a case and literature review of atypical multiple projectiles
	Matthieu Glardon

09:30 - 10:30	**Forensic Medicine and Toxicology (4:1)**
	House-Room: NL-461 *Session chair: Wilma Duist, NL*
09:30 - 09:50	OP104 - Analysis of 14C, 13C in Bones to Facilitate Identification of Unknown Human Remains.
	Rebecka Teglind
09:50 - 10:10	OP111 - Forensic anthropology experience versus Academic background: the needed difficult balance to achieve
	Eugénia Cunha
10:10 - 10:30	OP102 - A preliminary data-analysis of a four-year decomposition study with small-sized pig carcasses
	Iris Sluis

09:40 - 11:00	**Marks Impressions and Biometric Traces - Friction Ridge Skin (2)**
	House-Room: NL-Music Hall *Session chair: Henry Swofford, US*
09:40 - 10:00	OP150 - Comparison of Near Infra-red powders on Australian Polymer Banknotes
	Scott Chadwick
10:00 - 10:20	OP149 - Comparison of carbon and iron oxide powder suspension formulations
	Lumikki Clover Ree
10:20 - 10:40	OP153 - Exploring the effectiveness of a fingerprint powder batch acceptance protocol: interdisciplinary considerations
	Helen Earwaker
10:40 - 11:00	OP151 - Developing fingermarks on the adhesive side of dark electrical tape: Cyanoacrylate/Basic Yellow 40 or Powder Suspension?
	Pawel Korzeniewski

09:50 - 10:40	**Digital Evidence - Mobile Device, Network and Location Forensics (3:1)**
	House-Room: NL-453 *Session chair: Eoghan Casey, CH*
09:50 - 10:20	KN009 - Smart objects (IoTs) as crime scene witnesses
	Manon Fischer
10:20 - 10:40	OP077 - Revisiting home automation forensic experiences for application on a building automation and control system (BACS)
	Johnny Bengtsson
10:40 - 11:40	**Student Poster Session House-Room: NL-358**
10:40 - 11:40	**Poster Session 2 House-Room: NL-Auditorium**
	Digital Evidence, Scene of Crime, Marks, Impression, and Biometric Traces.
10:40 - 11:40	**COFFEE/TEA** *Coffee Areas*
11:40 - 12:20	**DNA/Forensic Genetics (1:2)**
	House-Room: FH-300 *Session chairs: Ricky Ansell, SE*
11:40 - 12:00	OP084 - DNA transfer between worn clothing and flooring surfaces with known histories of use
	Jack B. Reither
12:0 0 - 12:20	OP087 - Standardizing the field of DNA Activity Level and assessing experts
	Nick Laan
11:40 - 12:20	**Forensic Management - Doing the Right Thing (4:2)**
	House-Room: NL-Pillar Hall *Session chair: Sheila Willis, UK*
11:40 - 12:00	OP227 - Crime Scene to Court Collaboration in the Dutch Criminal Justice System; Faster Results and Greater Public Satisfaction
	Andre Hendrix
12:00 - 12:20	OP263 - Issues in forensic science and ethics
	Dorijan Keržan

CONTINUE ▶

11:40 - 12:20	Chemistry - Drugs (4:2)
	House-Room: NL-353 *Session chair: Simon Dunne, SE*
11:40 - 12:00	OP017 - On-scene identification of illicit drugs in seized samples using rapid and portable spectroscopic techniques
	Ruben Kranenburg
12:00 - 12:20	OP025 - Toward an integrated and mobile NMR-based analytical platform for the characterization of illicit drugs
	Thomas Castaing-Cordier

11:40 - 12:40	Scene of Crime - Fire and Explosion Investigation (1:2)
	House-Room: NL-361 *Session chair: Benny Thomsen, DK*
11:40 - 12:00	OP175 - Fire and Explosion Investigation: Butane Honey Oil Case Study
	Graham Strong
12:00 - 12:20	OP174 - Co-Operation between Police and Private Experts in the investigation of a deliberate fire event.
	Stuart Ritchie
12:20 - 12:40	OP276 - The art of manufacturing devices for ignition and evaluation of their use and the achieved effect of application
	Oleksandr Shmereho

11:40 - 12:20	Marks Impressions and Biometric Traces - Firearms and Tools (1:2)
	House-Room: NL-451 *Session chair: Nicole Richetelli, US*
11:40 - 12:00	OP135 - Forensic intelligence in gun shooting violence in Stockholm Region.
	Jens Ulander
12:00 - 12:20	OP134 - Feature-based calculation of likelihood ratios for forensic comparison of fired cartridge cases
	Nabanita Basu

11:40 - 12:20	**Digital Evidence - Mobile Device, Network and Location Forensics (3:2)**
	House-Room: NL-453 *Session chair: Eoghan Casey, CH*
11:40 - 12:00	OP072 - Automating Fault-Injection Attacks to Extract Digital Evidence
	Marius Eggert
12:00 - 12:20	OP080 - Use of deciphered data from Tesla vehicles
	Aart Spek
11:40 - 12:20	**Forensic Medicine and Toxicology (4:2)**
	House-Room: NL-461 *Session chair: Wilma Duist, NL*
11:40 - 12:00	OP115 - Individualised and non-contact postmortem interval estimation: combining thermal 3D imaging and numerical thermodynamics
	Leah Wilk
12:00 - 12:20	OP119 - The time of death in Dutch court; using the Daubert criteria to evaluate methods to estimate the PMI used in court
	Tamara Gelderman
12:20 - 13:35	LUNCH *Lunch Areas*
13:25 - 15:05	**Chemistry - Drugs (5:1)**
	House-Room: NL-353 *Session chair: Johan Dahlén, SE*
13:25 - 13:45	OP001 - Chemical attribution of fentanyl from biomedical samples
	Mirjam de Bruin-Hoegée
13:45 - 14:05	OP014 - Mass spectrometry-based identification of NPS in urine samples and abuse trends in Taiwan
	Yu-Hsiang Chang
14:05 - 14:25	OP008 - GCxGC-TOFMS as a complementary tool in doping control analysis of anabolic androgenic steroids
	Daniel Ruotsalainen

CONTINUE ▶

14:25 - 14:45	OP002 - Development and validation of a flexible liquid chromatographic method for the quantitative analysis of seized drugs
	Laura Hintikka
14:45 - 15:05	OP019 - Selective alkylation of Indazole-3-carboxylic acid in the synthesis of synthetic cannabinoid metabolites
	Tobias Rautio

13:35 - 15:05	**Marks Impressions and Biometric Traces - Footwear and Garments (1:1)**
	House-Room: NL-Music Hall *Session chair: Michael Gorn, US*
13:35 - 14:05	KN015 - Forensic Footwear Evidence: Stepping Forward
	Nicole Richetelli
14:05 - 14:25	OP145 - Footwear mark composite
	Edward Adach
14:25 - 14:45	OP144 - Footwear impressions in blood: possible variations for the same source
	Malou Den Harder
14:45 - 15:05	OP146 - The development and deployment of a footwear marks database in Western Switzerland: a forensic intelligence success.
	Julien Pasquier

13:35 - 14:45	**DNA/Forensic Genetics (2:1)**
	House-Room: NL-351 *Session chair: Ricky Ansell and Johannes Hedman, SE*
13:35 - 13:50	OP089 - Automated reporting of volume crime DNA samples yielding a non-comparable result
	Eija Lapinkaski
13:50 - 14:05	OP092 - Detection of multiple identities in the Swedish DNA database ensures correct identities in other governmental databases
	Karin Hedberg
14:05 - 14:25	OP098 - RapidHIT ID, fast DNA solution in french overseas territories: feedback on New Caledonia implementation.
	Laurene Pottier

14:25 - 14:45	OP093 - Development of the Fast DNA Identification Line (FDIL)
	Martin Slagter

13:35 - 15:05	**Scene of Crime - Capturing the Crime Scene, Complex Scenes (1:1)**
	House-Room: NL-357 *Session chair: Christianne de Poot, NL*
13:35 - 14:05	KN019 - The reconstruction of crimes
	Christianne de Poot
14:05 - 14:25	OP192 - Icarus: validation of a biomechanical model of the human body for forensic fall analysis.
	Jan Peter Van Zandwijk
14:25 - 14:45	OP191 - Blood in the dark: The impact of resolution on the ability to locate bloodstains on dark fabrics using infrared
	Andrew Hart
14:45 - 15:05	OP169 - Towards the development of an on-site analysis tool to determine the time of deposition of human biological evidence
	Annemieke van Dam

13:35 – 15:05	**Marks Impressions and Biometric Traces - Speaker Recognition (1)**
	House-Room: NL-453 *Session chair: David van der Vloed, NL*
13:35 – 14:05	KN017 - Advancing a paradigm shift in evaluation of forensic evidence: The rise of forensic data science
	Geoffrey Stewart Morrison
14:05 - 14:25	OP159 - BA-LR: binary-attribute-based likelihood ratio estimation for forensic voice comparison
	Imen Ben Amor
14.25 – 14:45	OP160 - Scarcity of data when performing automatic forensic speaker comparison
	David van der Vloed
14.45 – 15.05	OP161 - The E3 Forensic Speech Science System (E3FS3): Design principles and validation of core software tools
	Philip Weber

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13:45 - 15:05	Forensic Management - Education and Training (1:1)
	House-Room: NL-Pillar Hall *Session chair: Claude Roux, AU*
13:45 - 14:05	OP237 - Research and education: french cooking in PJGN
	Philippe Davadie
14:05 - 14:25	OP240 - Impact of Science Capital and communication within the criminal justice system: a non-scientist professionals' approach
	Oceane Laisney
14:25 - 14:45	OP238 - A National Swedish Program gives Selected Crime Scene Investigators an Enhanced Competence in Blood Pattern Analysis
	Anders Nilsson
14:45 - 15:05	OP242 - The Trace Transfer Analysis Database (TTADB) : Whom for? What for?
	Frank Crispino

13:45 - 15:05	Chemistry - Material (1)
	House-Room: NL-253 *Session chair: Jonas Malmborg, SE*
13:45 - 14:05	OP193 - Portable crime scene device: use of microNIR for rapid screening and quick response
	Pietro Maida
14:05 - 14:25	OP045 - Establishing the absolute time for the issuing of documents
	Oleh Posilskyi
14:25 - 14:45	OP048 - Finding traces of lubricant in sexual assault cases
	Marc A. Van Bochove
14:45 - 15:05	OP049 - Initial validation experiments of the SHUTTLE Toolkit
	Jaap Van Der Weerd

13:45 - 15:05	Forensic Statistics (1)
	House-Room: NL-356 *Session chair: Tereza Neocleous, UK*
13:45 - 14:05	OP243 - A logistic regression approach for the classification of forensic evidence
	Tereza Neocleous

14:05 - 14:25	OP255 - Use of Bayesian Inference in Interpretation in Forensic Anthropology
	Charles Berger
14:25 - 14:45	OP131 - Bias in forensic peer review
	Erwin Mattijssen
14:45 - 15:05	OP274 - Evaluating the weight of fingerprint evidence at activity level
	Ruoyun Hui

14:05 - 15:05	**Digital Evidence - Forensic Visualization (1)**
	House-Room: NL-451 *Session chair: Jurrien Bijhold, NL*
14:05 - 14:25	OP067 - Crime scene : from broad-based 3D modeling to VR experience
	Mikael DE MIRAS
14:25 - 14:45	OP068 - Representing uncertainty of position estimations in crime scene visualizations
	Katarina Iversen
14:45 - 15:05	OP069 - Virtual reality at the service of the training of investigators, application on a real fire.
	Jean-Luc Paillat
15:05 - 15:35	COFFEE/TEA *Coffee Areas*

15:35 - 16:15	**Forensic Management - Education and Training (1:2)**
	House-Room: NL-Pillar Hall *Session chair: Claude Roux, AU*
15:35 - 15:55	OP239 - Competence assurance in forensic laboratory
	Sani Marttila
15:55 - 16:15	OP241 - The potential of digital technologies to teach forensic practice
	Céline Weyermann

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15:35 - 16:15	**Marks Impressions and Biometric Traces - Footwear and Garments (1:2)**
	House-Room: NL-Music Hall *Session chair: Christophe Champod, CH*
15:35 - 15:55	OP265 - Training of Artificial Intelligence in the field of automatic shoe print retrieval
	Regina Eckardt
15:55 - 16:15	OP266 - Using a burned shoe to reconstruct a multi-fatality vehicle accident
	Michael Gorn

15:35 - 16:15	**DNA/Forensic Genetics (2:2)**
	House-Room: NL-351 *Session chair: Ricky Ansell and Johannes Hedman, SE*
15:35 - 15:55	OP094 - Evaluation of DNA methylation based age prediction models from buccal swabs and saliva samples using pyrosequencing data
	Alexandre Poussard
15:55 - 16:15	OP099 - RNA-based Age Estimation from RNA-Seq data - Preliminary Results from the RNAgE Project
	Guro Dørum

15:35 - 16:15	**Chemistry - Drugs (5:2)**
	House-Room: NL-353 *Session chair: Johan Dahlén, SE*
15:35 - 15:55	OP004 - Electrochemical detection of drug use in oral fluid for roadside drug testing
	Florine Joosten
15:55 - 16:15	OP003 - Development of direct electrochemical detection of synthetic cannabinoid metabolites
	Anaam Ameen

15:35 - 16:15	**Scene of Crime - Capturing the Crime Scene, Complex Scenes (1:2)**
	House-Room: NL-357 *Session chair: Christianne de Poot, NL*
15:35 - 15:55	OP168 - A novel rapid approach to crime scene investigations proposed in the framework of the H2020 RISEN project
	Giuliano Iacobellis
15:55 - 16:15	OP194 - Smartphone-based crime scene documentation with INSITU
	Steffen Franz
16:30 - 17:15	**Plenary Speaker, Congress Hall**
	PS005 - Crowdsourcing Digital Forensic Science
	Eoghan Casey

Thursday 2 June 2022

08:30 - 09:00	**The European Day – Introduction, Congress Hall**
09:00 - 09:45	**Plenary Speaker, Congress Hall**
	PS006 - A European Perspective on Artificial Intelligence in Law Enforcement
	Fredrik Heintz
09:45 - 10:30	**Plenary Speaker, Congress Hall**
	PS007 - Recent advances in forensic DNA phenotyping: the VISAGE Enhanced Tool offering new methods and markers for predicting appearance, ancestry and age.
	Peter M. Schneider
10:30 - 11:30	**Poster Session 3 House-Room: NL-Auditorium**
	Chemistry (part of Material sub-track), DNA/Forensic Genetics, Legal and Ethical Aspects, Forensic Statistics, European Perspectives
10:30 - 11:30	**Student Poster Session House-Room: NL-358**
10:30 - 11:30	COFFEE/TEA *Coffee Areas*
11:10 - 12:30	**Digital Evidence - Computer, Cybercrime, Malwear and Database Forensics (1)**
	House-Room: NL-Pillar Hall *Session chair: Zeno Geradts, NL*
11:10 - 11:30	OP060 - Payment card fraud analysis and tool for making new conclusions
	Johnny Bengt sson
11:30 - 11:50	OP058 - App Analyses and Reference Database Solution
	Abdul Boztas
11:50 - 12:10	OP059 - Automatic Generation of Parsers for Web Forums
	Daniel Camara
12:10 - 12:30	OP061 - The use of Internet traces to detect and monitor online illicit markets
	Marie Morelato

11:20 - 12:30	European Perspective (1)
	House-Room: NL-Music Hall *Session chair: Michael Bovens, CH*
11:20 - 11:50	KN021 - Forensics - EU Security Research and Innovation Perspective
	Nada Milisavljevic
11:50 - 12:10	OP212 - The ENFSI Research and Development Standing Committee : Past, Present and Future
	Bart Nys
12:10 - 12:30	OP268 - Supporting law enforcement innovation in Europe: the experience of the European Clearing Board
	Valentina Zuri

11:20 - 12:30	Scene of Crime - Trace and Evidence Interpretation (1)
	House-Room: NL-253 *Session chair: Charles Berger, NL*
11:20 - 11:50	KN026 - How we look determines what we see
	Keith Inman
11:50 - 12:10	OP197 - On the use of textile underwear as a support for condom evidence in rape cases
	Céline Burnier
12:10 - 12:30	OP196 - Investigation of transfer and persistence of condom evidence
	Céline Burnier

11:20 - 12:30	Chemistry - Explosives (1)
	House-Room: NL-353 *Session chair: Arian van Asten, NL*
11:20 - 11:50	KN003 - Homemade explosives – a multifaceted detection challenge
	Hans Önnerud
11:50 - 12:10	OP029 - Determination of triacetone triperoxide (TATP) using passive samplers in combination with GC-MS and GC-PCI-MS/MS methods
	Petra Hehet
12:10 - 12:30	OP026 - Application of ultra-portable NIR technology to hydrogen peroxide precursor and peroxide-based explosives
	Anne-Flore Prior

11:20 - 12:50	Legal and Ethical (1)
	House-Room: NL-357 *Session chair: Justice Tettey, UN*
11:20 - 11:50	KN032 - AI evidence and data protection safeguards: The European legal perspective
	Donatella Casaburo
11:50 - 12:10	OP257 - AI-based forensic evidence evaluation in court: the desirability of explanation and the necessity of validation
	Rolf Ypma
12:10 - 12:30	OP259 - Governing the Future: Social and ethical questions in the advent of digital(ised) forensics
	Amade M'charek
12:30 - 12:50	OP260 - Guiding Principles for Regulation of Forensic DNA Phenotyping in Hungary
	Mónika Nogel

11:30 - 12:30	European Perspective (3)
	House-Room: NL-453 *Session chair: Åsa Granström, SE*
11:20 - 11:50	KN020 - ENFSI collaboration and communication in the international playground
	Erkki Sippola

11:50 - 12:10	OP214 - Use of Facial Recognition in the Investigation of Crime across EU Member States
	Andra Sirgmets
12:10 - 12:30	OP207 - Development of a Forensic Multilingual Voices Database
	André Saraiva

11:30 - 12:30	**DNA/Forensic Genetics (3)**
	House-Room: NL-351 *Session chair: Christina Forsberg, SE*
11:30 - 11:50	OP090 - Can DNA-profiling provide intelligence information on criminal cooperation an organization, a case example.
	Jord H.A. Nagel
11:50 - 12:10	OP082 - Validation of automated microscope slide scanner with DNN based image analysis software for detection of sperm cells
	Maija Lepistö
12:10 - 12:30	OP091 - Detection of human DNA in the air
	Chiara Fantinato

11:30 - 12:30	**Marks Impressions and Biometric Traces - Friction Ridge Skin (3)**
	House-Room: NL-361 *Session chair: Caroline Gibb, NL*
11:30 - 11:50	OP157 - The EU funded ENFSI Monopoly Projects 2013 and 2020 and the testing program within the EFP-WG: a story of fruitful support
	Francesco Zampa
11:50 - 12:10	OP148 - AFIS user knowledge exchange across borders - working together to implement best practice systems
	John Riemen
12:10 - 12:30	OP156 - The EU funded ENFSI Monopoly Projects 2012, 2016 and 2020: The way forward to the publication of Fingerprint Best Practice Manual
	Francesco Zampa

CONTINUE ▶

11:30 - 12:30	**European Perspective (4)**
	House-Room: NL-461 *Session chair: Chistophe Champod, CH*
11-30 - 11.50	**OP279 - ASGARD/Hansken**
	tbc
11:50 - 12:10	**OP206 - CYCLOPES: building an innovation-driven network of European LEAs combating cybercrime**
	Peter van de Crommert
12:10 - 12:30	**OP278 - The LOCARD project**
	Constantinos Patsakis

11:50 - 12:30	**Forensic Statistics (2)**
	House-Room: NL-356 *Session chair: Anders Nordgaard, SE*
11:50 - 12:10	**OP251 - Measuring the understandability of forensic reports: a questionnaire based test**
	Tuomas Korpinsalo
12:10 - 12:30	**OP244 - A more accurate metric to measure calibration of likelihood ratios?**
	Peter Vergeer

11:50 - 12:30	**European Perspective (2)**
	House-Room: NL-451 *Session chair: tbc*
11:50 - 12:10	**OP211 - STEFA G03 – Joint Collaborative Exercise for Document Examination, DNA, Fingerprints and Handwriting**
	Tomasz Dziedzic
12:10 - 12:30	**OP209 - Forensic profiling of fraudulent identity and travel documents to fight organised crime: the European ProFID ISF project**
	Simon Baechler

12:30 - 13:45	LUNCH *Lunch Areas*

13:35 - 15:15	Marks Impressions and Biometric Traces - Firearms and Tools (2)
	House-Room: FH-300 *Session chair: Erwin Mattijssen, NL*
13:35 - 13:55	OP138 - Toolmarks Image Retrieval Using Deep Learning conventional Neural Network
	Ophélie Devaux
13:55 - 14:15	OP130 - Advances in Tool Marks Examinations of Human Tissue
	Matthias Weber
14:15 - 14:35	OP140 - Using the Congruent Matching Cells algorithm for comparing fracture surfaces of broken knifes and screwdrivers
	Koen Herlaar
14:35 - 14:55	OP139 - Towards virtual striation marks for comparing knifes to cartilage trauma caused by stabbing
	Koen Herlaar
14:55 - 15:15	OP142 - What's the point? An investigation of clothing severance damage involving conventional and novel knives.
	Leisa Nichols-Drew

13:45 - 15:15	EFSA 2030, FH-307

13:45 - 15:15	Digital Evidence - Artificial Intelligence (1)
	House-Room: NL-Pillar Hall *Session chair: Fredrik Heintz, SE*
13:45 - 14:15	KN007 - Using AI and automatic image analysis as an investigative tool
	Niclas Appleby
14:15 - 14:35	OP056 - Multidisciplinary Deepfake detection methods with artificial intelligence
	Zeno Geradts
14:35 - 14:55	OP052 - Authorship Identification in Web Forums
	Mohamed Belahcen
14:55 - 15:15	OP057 - Short String Similarity of Pseudonyms in the context Forensic Intelligence
	Timothy Bollé

CONTINUE ▶

13:45 - 15:15	European Perspective (5)
	House-Room: NL-Music Hall *Session chair: Nada Milisavljevic, EC*
13:45 - 14:15	KN034 The promotion of European forensic cooperation through EU funding to ENFSI
	Raimonds Apinis
14:15 - 14:35	OP277 - The ValiD project: IT forensic tools test and validation database
	Patrick De Smet
14:35 - 14:55	OP205 - A European approach to share forensic data to assist forensic examination and criminal investigation where to from now?
	Kornelia Nehse
14:55 - 15:15	OP147 - A pan-European training for fingermark visualization? It could work!
	Francesco Zampa

13:45 - 15:15	DNA/Forensic Genetics (4)
	House-Room: NL-351 *Session chair: Johannes Hedman, SE*
13:45 - 14:15	KN010 - Advancing the analysis, comparison and interpretation of DNA profiling data: What does the future hold for us?
	Corina Benschop
14:15 - 14:35	OP083 - An extended EuroForMix model to combine STR DNA mixture profiles from different kits
	Øyvind Bleka
14:35 - 14:55	OP085 - How does the choice of the optimization algorithm influence likelihood ratios in probabilistic genotyping.
	Mateusz Susik
14:55 - 15:15	OP095 - I-Familia: Identifying missing persons globally through family DNA kinship matching
	François-Xavier Laurent

13:45 - 15:15	European Perspective (6)
	House-Room: NL-451 *Session chair: Philip Engström, SE*
13:45 - 14:15	KN035 Internal Security Fund (ISF) 2021-2027
	Arnoud Heeres
14:15 - 14:35	OP271 - EACTDA and Tools4LEAs project
	Eva Škruba
14:35 - 14:55	OP273 - How the EU strengthens crime scene forensics capabilities in investigating CBRN incidents: an example from the Western Balkans and the Black Sea Region
	Katrijn Vandersteen
14:55 - 15:15	OP269 - EXERTER, Security of Explosives pan-European Specialists Network
	Anneli Ehlerding

13:45 - 15:15	European Perspective (7)
	House-Room: NL-453 *Session chair: Sheila Willis, UK*
13:45 - 14:07	KN031 - The effectiveness of the deliverables of Monopoly Projects
	The Quality and Competence Committee (QCC).
14:07 - 14:29	OP213 - The New ISO 21043-4 Standard for Interpretation in Forensic Science
	Charles Berger
14:29 - 14:51	OP210 - Multidisciplinary collaborative exercises: lessons learnt and perspectives within the EU funded ENFSI Monopoly Projects
	Francesco Zampa
14:51 - 15:15	OP208 - EU FireStat - possibilities and Impact of fire investigation results on fire statistics and prevention measurements
	Friedrich Grone

CONTINUE ▶

13:55 - 15:15	Scene of Crime - Trace and Evidence Interpretation (2)
	House-Room: NL-253 *Session chair: Liselotte Nielsen Sundberg, SE*
13:55 - 14:15	OP162 - AFORE WP2: Accreditation model for crime scene investigation
	Katri Matveinen
14:15 - 14:35	OP199 - The use of Design of Experiments (DOE) for transfer and persistence studies: the example of soil transfer on shoes
	Geneviève Massonnet
14:35 - 14:55	OP195 - BlindSite: Non-Contact Confirmatory Method for Visualization and Identification of Biological & Chemical Trace Evidence
	Alexander Smyth
14:55 - 15:15	OP198 - The evaluation of fingermarks on knives given activity level propositions
	Anouk de Ronde

13:55 - 14:55	Chemistry - Explosives (2)
	House-Room: NL-353 *Session chair: Martina McBride, IE*
13:55 - 14:15	OP031 - Enhancing smokeless powder profiling: development and assessment of different semi-quantitative GC-MS strategies
	Blake N. G. Kesic
14:15 - 14:35	OP027 - Characterization and comparison of smokeless powders by on-line two-dimensional liquid chromatography
	Rick S. van den Hurk
14:35 - 14:55	OP028 - Chemical attribution of the Homemade Explosive ETN
	Arian C. van Asten

13:55 - 15:15	Forensic Statistics (3)
	House-Room: NL-356 *Session chair: Anders Nordgaard, SE*
13:55 - 14:15	OP254 - Understanding the factors affecting transfer and persistence of glass from different recipients and varying propositions
	Claude Roux

14:15 - 14:35	OP247 - Gaussianization of LA-ICP-MS Features to Improve Calibration in Forensic Glass Comparison
	Pablo Ramírez-Hereza
14:35 - 14:55	OP250 - Machine Learning tools in two settings: gasoline detection in fire debris / author determination of text messages
	Martin Lory
14:55 - 15:15	OP249 - Likelihood ratios for speaker verification using fused linguistic and acoustic information
	Eleni Sergidou

13:55 - 15:15	Legal and Ethical (2)
	House-Room: NL-357 *Session chair: Justice Tettey, UN*
13:55 - 14:15	OP258 - Automated Human Recognition Technologies and Criminal Justice in the light of the last EU legal framework
	Ernestina Sacchetto
14:15 - 14:35	OP264 - Legal mechanisms enhancing quality of police datasets that feed AI
	Martyna Kusak
14:35 - 15:15	Panel debate, Legal & Ethical
	Moderator: Justice Tettey

13:55 - 15:15	Marks Impressions and Biometric Traces - Documents, Handwriting and Signature (1)
	House-Room: NL-361 *Session chair: Maëlig Jaquet, CH*
13:55 - 14:15	OP122 - Age determination of ballpoint pen ink using HPLC-DAD/FLD
	Kent Nord
14:15 - 14:35	OP125 - The potential of using the profiles of fraudulent identity documents to assist in intelligence-led policing
	Ciara Devlin

CONTINUE ▶

14:35 - 14:55	OP124 - Best Practice Manual for Forensic Examination of Digitally Captured Signatures (STEFA G8 Project)
	Tomasz Dziedzic
14:55 - 15:15	OP126 - "Forenscript": a database of digital handwriting samples for forensic analyses
	Fanny Guillet

14:15 - 15:15	**European Perspective (8)**
	House-Room: NL-461 *Session chair: Lena Widin Klasén, SE*
14:15 - 14:35	OP270 - Automating Crime Investigation with Autocrime platform
	Costas Kalogiros
14:35 - 14:55	OP272 - FORMOBILE project results
	Coert Klaver
14:55 - 15:15	OP275 - Identification of terrorist financing threats and schemes for the development of prevention and monitoring technologies
	Maria Jofre
15:15 - 15:45	COFFEE/TEA *Coffee Areas*

15:45 - 16:30	**Plenary Speaker, Congress Hall**
PS008 - Trust me? I am a forensic scientist	
	Justice Tettey

16:30 - 17:30	**Panel Debate 2, Congress Hall**

Friday 3 June 2022

09:00 - 09:45	**Plenary Speaker, Congress Hall**
	PS009 - Are We On the Right Side of the Equation? Becoming Outcome-Focused Versus Process-Driven
	John M. Butler
09:45 - 11:45	**Student Poster Session House-Room: NL-358**
09:55 - 11:45	**DNA/Forensic Genetics (5)**
	House-Room: NL-Pillar Hall *Session chair: John Butler, US*
09:55 - 10:25	KN012 - Investigative Genetic Genealogy: Current Practice and Future Challenges
	Andreas Tillmar
10:25 - 10:45	OP097 - Investigative Genetic Genealogy – Errors and how to deal with them
	Daniel Kling
10:45 - 11:05	OP096 - Investigative genetic genealogy in criminal investigations - an update of ongoing work in Sweden
	Siri Aili Fagerholm
11:05 - 11:25	OP100 - The power of unique molecular indices in an extensive SNP panel for confirming investigative genetic genealogy leads
	Adam Staadig
11:25 - 11:45	OP086 - MVPs of Forensic DNA: Examining Some of the Most Valuable Publications in the Field
	John Butler
10:15 - 11:45	**Digital Evidence - Artificial Intelligence (2)**
	House-Room: NL-Music Hall *Session chair: Philip Engström, SE*
10:15 - 10:45	KN025 - Reliability of Artificial Intelligence in Forensic Sciences
	Katrin Franke

CONTINUE ▶

10:45 - 11:05	OP055 - Forensic Investigations in a Smart City - The Role of Data Science and Artificial Intelligence
	Lukas Hardi
11:05 - 11:25	OP053 - Automation for digital forensic investigations: definition, categorization, and literature review
	Gaëtan Michelet
11:25 - 11:45	OP054 - Digital Forensics AI: Evaluation, Standardization, and Optimization of Evidence Mining Techniques
	Abiodun Abdullahi Solanke

10:15 - 11:25	Forensic Statistics (4)
	House-Room: NL-359 *Session chair: Anders Nordgaard, SE*
10:15 - 10:45	KN022 - Statistical modeling of complex forensic data
	Silvia Bozza
10:45 - 11:05	OP245 - Contaminated mixture normal distribution models for spectroscopic data
	Jorge Sanchez
11:05 - 11:25	OP246 - Development and implementation of a multivariate blood steroid passport for the detection of doping
	Miguel de Figueiredo

10:15 - 11:45	Chemistry - Environment (1)
	House-Room: NL-361 *Session chair: Lorna Nisbet, UK*
10:15 - 10:45	KN006 - The forensic comparison of mineral oils
	Jonas Malmborg
10:45 - 11:05	OP041 - Development of a likelihood ratio-based comparison method for oil spill identification
	Olli Laine
11:05 - 11:25	OP012 - Large-scale surveillance of hydrophobic contaminants in the Lake Geneva basin and investigation of pollution sources
	Fabienne Pfeiffer
11:25 - 11:45	OP023 - The use of passive samplers to monitor pesticides in rivers and to produce knowledge on contamination sources
	Naomi Reymond

10:25 - 11:45	Chemistry - Trace, Transfer and Persistence (1)
	House-Room: NL-356 *Session chair: tbc*
10:25 - 10:45	OP046 - Phosphorescent sand as a model system in glass transfer studies
	Jaap Van der Weerd
10:45 - 11:05	OP051 - Revisiting the fundamentals of transfer and persistence to improve the evaluation of forensic traces
	Victoria Lau
11:05 - 11:25	OP050 - Interdisciplinary approach to identifying the effect of washing garments in the transfer and persistence of fibres
	Virginie Galais
11:25 - 11:45	OP039 - Transfer and persistence of inorganic and organic gunshot residues
	Virginie Redouté Minzière

10:25 - 11:45	Scene of Crime - Training and Education (2)
	House-Room: NL-357 *Session chair: Matthijs Zuidberg, NL*
10:25 - 10:45	OP170 - Mixed Reality for crime scene investigators
	Jurrien Bijhold
10:45 - 11:05	OP171 - The forensic nature of child victimization – a population based study of child homicides in Sweden during 20 years
	Anna Jinghede Sundwall
11:05 - 11:25	OP172 - The impact of decontaminants on fingermarks and digital evidence
	Isabelle Radgen-Morvant
11:25 - 11:45	OP173 - Victim identification in a multi-hazard environment - Technical acts in the CBRNE exclusion zone - Two case studies
	Olivier Maresca

CONTINUE ▶

10:25 - 11:45	**Marks Impressions and Biometric Traces - Firearms and Tools (3)**
	House-Room: NL-451 *Session chair: Geoffrey Stewart Morrison, UK*
10:25 - 10:45	OP136 - Heat seal examinations – Part 1: Methods
	Maria Ledin
10:45 - 11:05	OP137 - Heat seal examinations – Part 2: Observations
	Viktor Andersson
11:05 - 11:25	OP141 - Validity and reliability of forensic firearm examiners and a computer-based method
	Erwin Mattijssen
11:25 - 11:45	OP133 - Determination of the orientation of guns at the time of shooting through the morphology of marks on the cartridge case
	Valerio Causin
12:00 - 13:00	**CLOSING CEREMONY, CONGRESS HALL**
13:00 - 14:15	LUNCH *Lunch Areas*

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EM HUNDRA KRONOR
500

PLENARY SPEAKERS

Forensic biometrics: Let's face it

Name & Title **Professor Christophe Champod**
Affiliation School of Criminal Justice University of Lausanne – UNIL, Switzerland

Date for Plenary Presentation: **Monday 30th May**

Christophe Champod received his M.Sc. and Ph.D. (summa cum laude) both in Forensic Science, from the University of Lausanne, in 1990 and 1995 respectively. Remained in academia until holding the position of assistant professor in forensic science. From 1999 to 2003, he led the Interpretation Research Group of the Forensic Science Service (UK), before taking a full professorship position at the School of Criminal Justice (ESC) of the University of Lausanne. He is in charge of education and research on identification methods (interpretation of DNA, facial images, fingerprints, toolmarks, footwear marks and firearms) and has the privilege to work with a group of 20 PhD students. The research carr5ied out by his group is mainly devoted to the inferential aspects associated with forensic identification techniques. The value to be attached to forensic evidence is at the core of their interests.

He is also operational manager of the ISO/SEC 17025 accredited forensic laboratory of the ESC. He maintains an activity as an expert witness in areas of marks and biological evidence interpretation both at a national and international level.

He is a steering committee member for the International Fingerprint Research Group (IFRG) and an invited member of Friction Ridge subcommittee of the Organization for Scientific Area Committees (OSAC).

Name & Title: **Professor Didier Meuwly**
Affiliation: Netherlands Forensic Institute – NFI and University of Twente, the Netherlands

Didier Meuwly is born in Fribourg, Switzerland. After a classical education (Latin/Philosophy), he graduated as a criminalist and criminologist (1993) and received his PhD (2000) at the School for Forensic Science (ESC) of the University of Lausanne, Switzerland.

He currently shares his time between the Forensic Institute of the Dutch Ministry of Security and Justice (Netherlands Forensic Institute – NFI), where he is a principal scientist, and the University of Twente (UT), where he holds the chair of Forensic Biometrics from 2013 onwards. He specializes in the automation and validation of the probabilistic evaluation of forensic evidence, and more specifically biometric traces. From 2002 to 2004 he worked as a senior forensic scientist at the R & D department of the UK Forensic Science Service (FSS), then an executive agency of the UK Ministry of the Interior.

Didier has served as a criminalist in several international terrorist cases on request of the ICTY, STL, UN and UK, has authored and coauthored more than 60 scientific publications and book chapters in the field of forensic science.

Didier is an associate and guest editor of Forensic Science International (FSI), a member of the R & D standing committee for research and development of the European Network of Forensic Science Institutes (ENFSI) and a member of the ISO Technical Committee 272 editing the first ISO forensic science standard (21043).

The Role and Value of the Forensic Science Laboratory in an Ever-Changing World

Name & Title: **Distinguished Professor Claude Roux**
Affiliation: University of Technology Sydney (UTS), Australia and The Centre for Forensic Science, Australia

Date for Plenary Presentation: **Tuesday 31st May, 2022**

Claude Roux is a Professor of Forensic Science and the founding Director of the Centre for Forensic Science at the University of Technology Sydney. His research activities cover a broad spectrum of forensic science, including microtraces and chemical criminalistics, documents, fingerprints, forensic intelligence and the contribution of forensic science to policing and security. His professional motivation has been largely driven by his vision of forensic science as a distinctive academic and holistic research-based discipline.

Claude has a long history of establishing strong partnership with a variety of government and industry organisations. He has published more than 190 refereed papers and 26 book chapters.

His research has been funded by the Australian Research Council, the Australian Defence Science and Technology Group, the US Combating Terrorism Technical Support Office and the US National Institute of Justice.

Claude is a member of a number of expert and advisory groups in Australia and overseas. He is the current President of the International Association of Forensic Sciences (IAFS), immediate Past-President of the Australian & NZ Forensic Science Society and a Fellow of the Royal Society of New South Wales. He also serves on the Scientific Advisory Board of the International Criminal Court. He earned his undergraduate and PhD degrees in forensic science and criminology from the University of Lausanne, Switzerland.

'Customer' perspectives on forensic science

Name & Title: **Professor Gillian Tully CBE, PhD HonFCSFS Hon FFFLM**
Affiliation: Kings College London (KCL), United Kingdom

Date for Plenary Presentation: **Tuesday 31st May**

Gill has over 30 years' experience spanning research, casework and regulation in forensic science. Her current roles are Professor of Practice for Forensic Science Policy and Regulation at King's College London and consultant at Tully Forensic Science Ltd.

From November 2014 to February 2021, she was the Forensic Science Regulator for England and Wales, responsible for setting quality standards for forensic science in the Criminal Justice System and for advising and challenging Government. Gill has given evidence to multiple Parliamentary Committees as well as providing expert evidence in courts in this jurisdiction and overseas. With several granted patents, numerous peer reviewed publications and experience of taking research ideas from inception to court, Gill has a record of effective innovation. She has advised the Government and companies on bringing research to market and has collaborated actively internationally. Her research interests include improving the quality and effectiveness of forensic science and improving the interface between science and the law.

In her consultancy role, Gill works with forensic science leaders and practitioners to assist with improving the quality and effective application of forensic science, from crime scene to court.

In 2020, Gill was awarded a CBE for services to forensic science. She is an Honorary Fellow of the Chartered Society of Forensic Sciences, an Honorary Fellow of the Faculty of Forensic and Legal Medicine, an Honorary Member of the Society of Legal Scholars, and a member of the International Society of Forensic Genetics.

Crowdsourcing Digital Forensic Science

Name & Title: **Professor Eoghan Casey**
Affiliation: Chief Scientist of the Defense Cyber Crime Center (DC3), University of Lausanne – UNIL, Switzerland

Date for Plenary Presentation: **Wednesday 1st June, 2022**

Eoghan Casey is a professor at the School of Criminal Sciences in University of Lausanne, and he is the chief scientist at the DoD Cyber Crime Center (DC3). For over two decades, he has dedicated himself to advancing digital forensic science. He has extensive experience working in digital forensic laboratories in the public and private sectors, and he has analyzed many types of digital evidence to support complex cases.

His most recent work includes co-creating the Digital Artifact Catalog in collaboration with DC3 and NIST, and contributing to a formalized model of the Trace to support a unified understanding across scientific disciplines. He helped develop advanced capabilities for extracting and analyzing digital evidence, including the open source SQLite Dissect and the patented performant process for salvaging renderable content from digital data sources (US patent 16/014067). He has consulted globally with many agencies and companies on a wide range of digital investigations, and he has delivered expert testimony in the North America, Europe, and international tribunals. He leads an international initiative that develops and implements the ontology-based Cyber-investigation Analysis Standard Expression (CASE), now part of the Linux Foundation.

Dr. Casey serves on the Digital Forensic Research Workshop (DFRWS) Board of Directors. He wrote the foundational book Digital Evidence and Computer Crime, now in its third edition, and he created advanced smartphone forensics courses taught worldwide. From 2004 to 2020, he was the Editor-in-Chief of FSI Digital Investigation, publishing cutting edge work by and for practitioners and researchers.

"I'm not sure that you understood what I think it was that I just said" – the critical importance of communication

Name & Title: **Professor Niamh Nic Daeid**
Affiliation: University of Dundee, United Kingdom, and The Leverhulme Research Centre for Forensic Science (LRCFS)

Date for Plenary Presentation: **Wednesday 1st June, 2022**

Professor Niamh Nic Daeid is an award winning Chartered Chemist and Authorised forensic scientist.

She is a Professor of Forensic Science and Director of the Leverhulme Research Centre for Forensic Science at the University of Dundee. She has been involved in forensic science education, research and casework for over 25 years.

She is a Fellow of the Royal Society of Edinburgh and holds fellowships of the Royal Society of Chemistry, the Chartered Society of Forensic Science, the Institute of Chemistry of Ireland, the Royal Statistical Society and the UK Association of Fire Investigators. Niamh has previously chaired the ENFSI working group for fire and explosion investigation and the INTERPOL forensic science managers symposium. She was vice chair of the scientific advisory board of the International Criminal Court for 6 years and acts as an advisor to the United Nations Office of Drugs and Crime (UNODC). She is an appointed Commissioner on the Dundee Drugs Commission investigating drug related deaths in Dundee. Niamh has received a range awards including the ENFSI distinguished scientist award, the Pete Ganci award for services to fire investigation and the Stephen Fry Award for public engagement. Her Centre was awarded a UK National Gold Watermark for public engagement in 2019.

She has published over 200 peer reviewed research papers and book chapters and holds a research grant portfolio in excess of £28 million.

A European Perspective on Artificial Intelligence in Law Enforcement

Name & Title: **Professor Fredrik Heintz**
Affiliation: Linköping University (LiU), Sweden

Date for Plenary Presentation: **Thursday 2nd June**

Fredrik Heintz is a Professor of Computer Science at Linköping University, Sweden. He leads the Reasoning and Learning group. His research focus is artificial intelligence especially Trustworthy AI and the intersection between knowledge representation and machine learning.

He is the Director of the Graduate School for the Wallenberg AI, Autonomous Systems and Software Program (WASP), coordinator of the TAILOR ICT-48 network developing the scientific foundations of Trustworthy AI, and the President of the Swedish AI Society. He is also very active in education activities both at the university level and in promoting AI, computer science and computational thinking in primary, secondary and professional education. Fellow of the Royal Swedish Academy of Engineering Sciences (IVA).

Recent advances in forensic DNA phenotyping: the VISAGE Enhanced Tool offering new methods and markers for predicting appearance, ancestry and age

Name & Title: **Professor Dr. Peter M. Schneider**
Affiliation: Professor Emeritus at the Institute of Legal Medicine, University of Cologne, Germany

Date for Plenary Presentation: **Thursday 2nd June.Biography**

Peter M. Schneider is professor emeritus at the Institute of Legal Medicine, University of Cologne, Germany, working in the Division of Forensic Molecular Genetics. Having been active in this field for more than 30 years, he has extensive experience in routine DNA typing of criminal evidence material, identification cases, as well as relationship testing. His research interests include forensic DNA phenotyping, various forensic applications of massively parallel sequencing, as well as mRNA analysis for body fluid identification.

He has been coordinator of the EU-funded "European Forensic Genetics Network of Excellence – EUROFORGEN-NoE" (2012-1016) and work package leader in the "VISible Attributes through GEnomics – VISAGE" Consortium (2017-2021). He is associate editor of the scientific journal Forensic Science International: Genetics, chairman of the German Forensic Stain Commission organizing the annual proficiency testing GEDNAP (www.gednap.org), as well as former President and current Secretary of the International Society for Forensic Genetics (ISFG)..

Trust me? I am a forensic scientist

Name & Title: **Dr. Justice Tettey**
Affiliation: Chief, Laboratory and Scientific Section
United Nations Office on Drugs and Crime (UNODC)

Date for Plenary Presentation: **Thursday 2nd June**

Dr. Justice Tettey holds a Bachelor of Pharmacy (Hons) degree from the University of Science and Technology, Ghana, and degrees of Master of Science in Pharmaceutical Analysis (quality management) and a Doctor of Philosophy in Pharmaceutical Sciences (pharmaceutical analysis and drug metabolism studies) from the University of Strathclyde, Glasgow, UK.

Dr. Tettey joined the United Nations Office on Drugs and Crime in 2008 as Chief of the Laboratory and Scientific Section, Division of Policy Analysis. He is responsible for the implementation of the Office's Global Scientific and Forensic Services Programme, the Global Synthetic Drugs Monitoring Analysis Reporting and Trends (SMART) Programme and the Integrated Strategy on the Global Opioid Crisis.

Dr. Tettey has over 28 years of experience in various aspects of medicines regulation and international drug control and has published extensively on a wide range of topics including, pharmaceutical analysis, drug metabolism and toxicity, illicit synthetic drug markets, international drug policy and forensic science. He was awarded the Fellowship of the Royal Society of Chemistry of the United Kingdom in 2008 and an honorary degree of the Doctor of Laws by the University of Dundee, United Kingdom in 2019.

Are We On the Right Side of the Equation? Becoming Outcome-Focused Versus Process-Driven

Name & Title: **Dr. John M. Butler**
Affiliation: NIST Fellow & Special Assistant to the Director for Forensic Science U.S. Government-Department of Commerce, National Institute of Standards and Technology-NIST, US

Date for Plenary Presentation: **Friday 3rd June**

John M. Butler is an internationally recognized expert in forensic DNA analysis and holds a Ph.D. in analytical chemistry from the University of Virginia. He has written five textbooks on Forensic DNA Typing (2001, 2005, 2010, 2012, and 2015) and given hundreds of invited talks to scientists, lawyers, and members of the general public throughout the United States and in 27 other countries so far.

Dr. Butler's research, first conducted at the FBI Laboratory and now at the National Institute of Standards and Technology (NIST), pioneered the methods used today worldwide for DNA testing in criminal casework, paternity investigations, and many DNA ancestry procedures. Dr. Butler is a NIST Fellow (highest scientific rank at NIST) and Special Assistant to the Director for Forensic Science. He served as the Vice-Chair of the National Commission on Forensic Science from 2014 to 2017. In 2019, he was elected the President of the International Society for Forensic Genetics (ISFG).

Dr. Butler and his wife have six children, all of whom have been proven to be theirs through the power of DNA testing.

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KEYNOTE SPEAKERS

Keynote Speakers of EAFS 2022

Below you find information about the Keynote Presentations at EAFS 2022.

CHEMISTRY

Name and Title	**Professor Maurice Aalders**
Affiliation	*Amsterdam University Medical Centers, location AMC, Department of Biomedical Engineering and Physics, The Netherlands*
Title of Presentation	*The Progress and Promise of Forensic Chemical Imaging*
Date for Presentation	*30 May*

Name and Title	**Associate Professor Simon J. Dunne**
Affiliation	*The National Forensic Centre (NFC), The Swedish Police Authority*
Title of Presentation	*Chemical Intelligence: Impurity Profiling in Real Time Meets Impurity Profiling in Real Labs*
Date for Presentation	*31 May*

Name and Title	**Dr. Tatiana Trejos**
Affiliation	*West Virginia University (WVU) Department of Forensic and Investigative Science, US*
Title of Presentation	*Analysis and Interpretation of Organic and Inorganic Gunshot Residues: Lessons Learned from a Large Population Study*
Date for Presentation	*31 May*

Name and Title	**Associate Professor Pierre Esseiva**
Affiliation	*School of criminal justice, University of Lausanne – UNIL, Switzerland*
Title of Presentation	*Real time analysis of illicit drugs, an opportunity to cope with the trend toward the decentralization of forensic capabilities.*
Date for Presentation	*1 June*

Name and Title	**Dr. Hans Önnerud**
Affiliation	*Swedish Defence Research Agency, FOI*
Title of Presentation	*Homemade explosives – a multifaceted detection challenge*
Date for Presentation	*2 June*

Name and Title	**Jonas Malmborg**
Affiliation	*The National Forensic Centre (NFC), The Swedish Police Authority*
Title of Presentation	*The Forensic Comparison of Mineral Oils*
Date for Presentation	*3 June*

DIGITAL EVIDENCE

Name and Title	**Aya Fukami**
Affiliation	*Netherlands Forensic Institute (NFI) and University of Amsterdam, The Netherlands*
Title of Presentation	*Modern Mobile Forensic Techniques*
Date for Presentation	*31 May*

Name and Title	**Manon Fischer**
Affiliation	*School of criminal justice, University of Lausanne – UNIL, Switzerland*
Title of Presentation	*Smart objects (IoTs) as crime scene witnesses*
Date for Presentation	*1 June*

Name and Title	**Niclas Appleby**
Affiliation	*The National Forensic Centre (NFC), The Swedish Police Authority*
Title of Presentation	*Using AI and automatic image analysis as an investigative tool*
Date for Presentation	*2 June*

Name and Title	**Professor Katrin Franke**
Affiliation	*Norwegian Center for Cybersecurity in Critical Sectors, Norwegian University of Science and Technology (NTNU)*
Title of Presentation	*Reliability of Artificial Intelligence in Forensic Sciences*
Date for Presentation	*3 June*

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KEYNOTE SPEAKER

DNA/FORENSIC GENETICS

Name and Title	**Professor Bas Kokshoorn**
Affiliation	*Netherlands Forensic Institute (NFI) and Amsterdam University of Applied Sciences (AUAS), The Netherlands*
Title of Presentation	*Reflections on 10 years of activity level reporting; where to from here?*
Date for Presentation	*1 June*

Name and Title	**Dr. Corina Benschop**
Affiliation	*Netherlands Forensic Institute (NFI) Division of Biological Traces, Team Research*
Title of Presentation	*Advancing the analysis, comparison and interpretation of DNA profiling data: What does the future hold for us?*
Date for Presentation	*2 June*

Name and Title	**Associate Professor Andreas Tillmar**
Affiliation	*National Board of Forensic Medicine, Sweden and Linköping University (LiU), Sweden*
Title of Presentation	*Investigative genetic genealogy: Current practice and future challenges*
Date for Presentation	*3 June*

FORENSIC MEDICINE AND TOXICOLOGY

Name and Title	**Dr. Ing. Arjo Loeve**
Affiliation	*Delft University of Technology, The Netherlands*
Title of Presentation	*Infant Head Injury by Shaking Trauma – a biomechanical engineering perspective*
Date for Presentation	*31 May*

MARKS, IMPRESSIONS AND BIOMETRIC TRACES

Name and Title	**Henry Swofford**
Affiliation	*HJS Consulting, LLC, (US/CH)*
Title of Presentation	*Toward Computational Algorithms in Forensic Fingermark Examination: Navigating a Path Forward*
Date for Presentation	*31 May*

Name and Title	**Dr. Erwin Mattijssen**
Affiliation	*Netherlands Forensic Institute (NFI)*
Title of Presentation	*Forensic judgments and computer-based methods: Validity, reliability and bias*
Date for Presentation	*1 June*

Name and Title	**Dr. Geoffrey Stewart Morrison**
Affiliation	*Forensic Data Science Laboratory, Aston University Forensic Evaluation Ltd, UK*
Title of Presentation	*Advancing a paradigm shift in evaluation of forensic evidence: The rise of forensic data science*
Date for Presentation	*1 June*

Name and Title	**Nicole Richetelli**
Affiliation	*Noblis Inc., US*
Title of Presentation	*Forensic footware evicence, stepping forward*
Date for Presentation	*1 June*

SCENE OF CRIME

Name and Title	**Mike Groen**
Affiliation	*Netherlands Forensic Institute (NFI) and Leiden University, The Netherlands*
Title of Presentation	*Reconstructing Crime Scenes: An Archeological Approach*
Date for Presentation	*30 May*

Name and Title	**Eva Ljungkvist**
Affiliation	*National Forensic Services (NKC) Special Crime Unit, Danish Police*
Title of Presentation	*Forensic science means science – how to thrive in the future by cutting the edge together*
Date for Presentation	*1 June*

KEYNOTE SPEAKER

SCENE OF CRIME

Name and Title	**Professor Christianne de Poot**
Affiliation	*Amsterdam University of Applied Sciences (AUAS) and the Police Academy of The Netherlands, Professor of Criminalistics at the VU University, Amsterdam, The Netherlands*
Title of Presentation	*The reconstruction of crimes*
Date for Presentation	*1 June*

Name and Title	**Professor Keith Inman**
Affiliation	*Leverhulme Research Centre for Forensic Science, UK and California State University, US*
Title of Presentation	*How we look determines what we see*
Date for Presentation	*2 June*

EUROPEAN PERSPECTIVE

Name and Title	**Dr. Nada Milisavljevic**
Affiliation	*Directorate-General Migration and Home Affairs (DG HOME), European Commission*
Title of Presentation	*Forensics – EU Security Research and Innovation Perspective*
Date for Presentation	*2 June*

Name and Title	**Dr. Erkki Sippola**
Affiliation	*National Bureau of Investigation Forensic Laboratory (NBIFL), Finland*
Title of Presentation	*ENFSI collaboration and communication in the international playground*
Date for Presentation	*2 June*

Name and Title	**ENFSI Quality and Competence Committee (QCC)**
Affiliation	
Title of Presentation	*The effectiveness of the deliverables of Monopoly Projects*
Date of Presentation	*2 June*

Name and Title	**Raimonds Apinis**
Affiliation	*ENFSI Direct Grant Manager*
Title of Presentation	*The promotion of European forensic cooperation through EU funding to ENFSI*
Date of Presentation	*2 June*

EUROPEAN PERSPECTIVE

Name and Title	**Arnoud Heeres**
Affiliation	*Directorate-General Migration and Home Affairs (DG HOME), European Commission*
Title of Presentation	*Internal Security Fund (ISF) 2021-2027*
Date of Presentation	*2 June*

FORENSIC MANAGEMENT

Name and Title	**Melissa Taylor**
Affiliation	*National Institute of Standards and Technology (NIST), US*
Title of Presentation	*The Dirty Dozen – Understanding the 12 Most Common Preconditions for Human Error*
Date for Presentation	*30 May*

Name and Title	**François Heulard, Colonel**
Affiliation	*Institut de Recherche Criminelle de la Gendarmerie Nationale, France*
Title of Presentation	*The Forensic Science Laboratory of the French Gendarmerie (IRCGN): An original and singular management*
Date for Presentation	*31 May*

Name and Title	**Dr. Simon Walsh**
Affiliation	*Australian Federal Police (AFP), Canberra, Australia*
Title of Presentation	*Essential strategic, operational and enabling reforms to Implement a forensic operating model for the contemporary criminal and security environment*
Date for Presentation	*31 May*

Name and Title	**Dr. Annemieke de Vries**
Affiliation	*Netherlands Forensic Institute (NFI)*
Title of Presentation	*Innovation for the Forensic Questions of Tomorrow*
Date for Presentation	*1 June*

KEYNOTE SPEAKER

FORENSIC STATISTICS

Name and Title	**Associate Professor Silvia Bozza**
Affiliation	*Ca' Foscari University of Venice Department Economics, Italy and School of criminal justice, University of Lausanne – UNIL, Switzerland*
Title of Presentation	*Statistical modelling of complex forensic data*
Date for Presentation	*3 June*

LEGAL AND ETHICAL ASPECTS

Name and Title	**Donatella Casaburo**
Affiliation	*KU Leuven Centre for IT & IP Law – imec, Belgium*
Title of Presentation	*AI evidence and data protection safeguards: The European legal perspective*
Date for Presentation	*2 June*

WORKSHOPS

Registration is required for participation in Workshops.
Please contact the Conference Registration Desk for more information.

Monday 30 May 2022

10:30-11:30	COFFEE/TEA *Coffee Areas*
12:30-13:30	LUNCH *Lunch Areas*
15:15-15:50	COFFEE/TEA *Coffee Areas*
09:00 - 12:30	**WS001 Decentralization of forensic laboratories, challenges and opportunities - Part 1**
	House-Room: FH-503+504 *WS-facilitator: Pierre Esseiva, CH*
09:00 - 12:30	**WS002 The principles of Forensic Science - towards a universal approach**
	House-Room: NL-Music Hall *WS-facilitator: Rebecca Bucht, FI*

09:00 - 12:30	**WS003 The Process of Process Mapping in Latent Print, Handwriting and Firearm Examination - Part 1**
	House-Room: NL-253 *WS-facilitator: Melissa Taylor, US*
09:00 - 12:30	**WS004 Taphonomic research facilities – establishing, maintaining and creating possibilities for forensic science**
	House-Room: NL-353 *WS-facilitator: Maurice Aalders, NL*
09:00 - 12:30	**WS005 Crime Scene Investigation: where to from here? A European perspective - Part 1**
	House-Room: NL-355 *WS-facilitator: Madeleine de Gruijter, NL*
09:00 - 12:30	**WS006 The role of forensic science in the investigation and monitoring of environmental security problems**
	House-Room: NL-359 *WS-facilitator: Céline Weyermann, CH*
09:00 - 12:30	**WS007 Application, Implementation, and Resources for the Adoption of Ambient Ionization Mass Spectrometry in Forensic Laboratories**
	House-Room: NL-361 *WS-facilitator: Edward Sisco, US*
09:00 - 12:30	**WS008 Reporting findings of latent print comparison - Standardised conclusions and accreditation ISO/IEC 17025**
	House-Room: NL-451 *WS-facilitator: Aldo Mattei, IT*
13:30 - 17:20	**WS001 Decentralization of forensic laboratories, challenges and opportunities - Part 2**
	House-Room: FH-503+504 *WS-facilitator: Pierre Esseiva, CH*
15:15 - 17:20	**WS009 - A multimodal look at forensic evidence**
	House-Room: NL-354 *WS-facilitator: Maurice Aalders, NL*
15:50 - 17:20	**WS003 The Process of Process Mapping in Latent Print, Handwriting and Firearm Examination - Part 2**
	House-Room: NL-253 *WS-facilitator: Melissa Taylor,US*
15:50 - 17:20	**WS005 Crime Scene Investigation: where to from here? A European perspective - Part 2**
	House-Room: NL-355 *WS-facilitator: Madeleine de Gruijter, NL*

Tuesday 31 May

10:10-10:40	COFFEE/TEA *Coffee Areas*
12:10-13:25	LUNCH *Lunch Areas*
14:35-15:25	COFFEE/TEA *Coffee Areas*

09:30 - 12:10	**WS010 The forensic values of fusing 3D data from terrestrial laser scanners and photogrammetry**
	House-Room: FH-307 *WS- facilitator: Jimmy Berggren, SE*
09:30 - 12:10	**WS011 Designing and using virtual reality in crime scene investigation and training**
	House-Room: FH-503+504 *WS- facilitator: Eva Ljungkvist, DK*
09:30 - 12:10	**WS012 - Site strategies and planning for facilities suited for forensic work**
	House-Room: NL-354 *WS-facilitator:: Martin Josefsson, SE*
09:30 - 12:10	**WS013 - Forensic Case Coordination - What is it? Who does it? And what can it do for you?**
	House-Room: NL-356, Breakout-Room: NL-355 *WS-facilitator: Lore George, BE*
09:30 - 12:10	**WS014 - Do you understand what I am saying? A workshop on communicating forensic science**
	House-Room: NL-362 *WS-facilitator: Heather Doran, UK*
09:30 - 12:10	**WS015 - Human factors in Forensic Science: lessons learned and common themes from the National Institute of Justice/ National Institute of Standards and Technology Expert Working Groups**
	House-Room: NL-462 *WS-facilitator: Melissa Taylor, US*

09:30 - 12:10	**WS016 - Preparation for the Basic General Forensic Knowledge Examination**
	House-Room: NL-463 *WS-facilitator: Didier Meuwly, NL*
13:25 - 16:10	**WS017 - Creating a virtual reality experience for crime scene investigation and training**
	House-Room: FH-503+504 *WS-facilitator: Sang-Hun Yu, UK*
13:25 - 17:10	**WS018 - A practical approach to combining evidence in interdisciplinary casework**
	House-Room: NL-354 *WS-facilitator: Jan De Koeijer, NL*

Wednesday 1 June

10:40-11:40	COFFEE/TEA *Coffee Areas*
12:20-13:35	LUNCH *Lunch Areas*
15:05-15:35	COFFEE/TEA *Coffee Areas*

09:30- 12.45	**WS024 - Forensic Archaeology and Anthropology**
	House-Room: NL-355 *WS-facilitator: Mike Groen, NL*
09:30 - 12:20	**WS019 - Virtual and Mixed Reality applications for Crime Scene Investigation, Reconstruction, Presentation, Training and Education**
	House-Room: FH-503+504, Breakout-Room: FH-501 *WS-facilitator: Jurrien Bijhold, NL*
09:30 - 12:20	**WS020 - Challenges in Digital Forensics, mobile, AI and IoT**
	House-Room: NL-253 *WS-facilitator: Zeno Geradts, NL*
09:30 - 12:20	**WS021 - Vehicle Forensics - Part 1**
	House-Room: NL-254 *WS-facilitator: Forensic Experts from the Software and Hardware Forensics Group, SE*
09:30 - 12:20	**WS022 - Novel strategies to meet the NPS challenge**
	House-Room: NL-255 *WS-facilitator: Adrianus Cornelis Van Asten, NL*
09:30 - 12:20	**WS023 - Validation of forensic DNA analysis methods**
	House-Room: NL-354 *WS-facilitator: Christina Forsberg, SE*
09:30 - 12:20	**WS025 - From textbook to e-learning - a new web-based training platform for forensic practitioners**
	House-Room: NL-356 *WS-facilitator: Jan-Eric Grunwald, DE*

09:30 - 12:20	**WS026 - Lessons learned from the covid-19 pandemic**
	House-Room: NL-357 *WS-facilitator: Cecilia Vahlberg, SE*
09:30 - 11:40	**WS027 - Calibration and validation of likelihood-ratio systems**
	House-Room: NL-359 *WS-facilitator: Geoffrey Stewart Morrison, UK*
09:30 - 12:20	**WS028 - Chemometrics: easy to use tools for processing and interpreting data of forensic samples - Part 1**
	House-Room: NL-362 *WS-facilitator: Sami Huhtala, FI*
09:30 - 12:20	**WS029 - WSBasic forensic neuropathology**
	House-Room: NL-462 *WS-facilitator: Jan Beckervordersandforth, NL*
13:05 - 17:15	**WS034 - MSAB Ecosystem: An all-round approach to Mobile Forensics**
	House-Room: NL-359 *WS-facilitator: Ghennadii Konev, SE*
13:35 - 16:15	**WS030 - Do you understand what I am saying? A workshop on communicating forensic science**
	House-Room: FH-203+204 *WS-facilitator: Heather Doran, UK*
13:35 - 16:15	**WS031 - A forensic practitioner's cookbook for building LR systems from data**
	House-Room: FH-300 *WS-facilitator: Rolf Ypma, NL*
13:35 - 16:15	**WS021 - Vehicle Forensics - Part 2**
	House-Room: NL-254 *WS-facilitator: Forensic Experts from the Software and Hardware Forensics Group, SE*
13:35 - 16:15	**WS032 - Predictive in vitro models, case work and early warning system as tools for identification and classification of new psychoactive substances**
	House-Room: NL-255 *WS-facilitator: Henrik Green, SE*
13:35 - 16:15	**WS033 - What is a complex DNA-mixture? Complex DNA-mixture interpretation, statistical evaluation and the use of a supporting expert system**
	House-Room: NL-354 *WS-facilitator: Jord H.A. Nagel, NL*

CONTINUE ▶

13:35 - 17:15	**WS035 - Hansken the open platform for digital forensic investigation**
	House-Room: NL-361 *WS-facilitator: Hans Henseler, NL*
13:35 - 16:15	**WS028 - Chemometrics: easy to use tools for processing and interpreting data of forensic samples - Part 2**
	House-Room: NL-362 *WS-facilitator: Sami Huhtala, FI*
13:35 - 16:15	**WS036 - Identifying and interpreting cremated human remains**
	House-Room: NL-462 *WS-facilitator: Roelof-Jan Oostra, NL*
13:35 - 17:15	**WS037 - Digitally captured signature visualizations through Namirial's FirmaCertaForensic software: a review of the range of natural variation in different representations**
	House-Room: NL-463 *WS-facilitator: Nikolaos Kalantzis, GR*

Thursday 2 June 2022

10:30-11:30	COFFEE/TEA *Coffee Areas*
12:30-13:45	LUNCH *Lunch Areas*
15:15-15:45	COFFEE/TEA *Coffee Areas*

11:00- 12:30	**WS040 - Smartphone-based crime scene documentation with INSITU - a hands-on workshop - Part 1**
	House-Room: NL-355 *WS-facilitator: Steffen Franz, DE*
11:00- 12:30	**WS041- Sampling strategy for the interpretation and evaluation of cases of alleged sexual assault - Part 1**
	House-Room: NL-359 *WS-facilitator: Charlotte Murphy, IE*
11:00 - 12:30	**WS038 - The SHUTTLE Project Toolkit for Micro-trace Analysis - Part 1**
	House-Room: FH-203+204 *WS-facilitator: Sophia Berkani, FR*
11:00 - 12:30	**WS042 - INSPECTr: Intelligence Network and Secure Platform for Evidence Correlation and Transfer**
	House-Room: NL-362 *WS-facilitator: Robert Dowdall, IE*
11:00 - 12:30	**WS043 - Data for forensics: Presentation of two European research projects (STARLIGHT and popAI)**
	House-Room: NL-463 *WS-facilitator: Freek Bomhof, NL*
11:30 - 12:30	**WS039 - Scientific Publication: Reading, Writing, and Reviewing**
	House-Room: FH-300 *WS-facilitator: John Butler, US*
13:45 - 15:15	**WS038 - The SHUTTLE Project Toolkit for Micro-trace Analysis - Part 2**
	House-Room: FH-203+204 *WS-facilitator: Sophia Berkani, FR*
13:45 - 15:15	**WS040 - Smartphone-based crime scene documentation with INSITU - a hands-on workshop - Part 2**
	House-Room: NL-355 *WS-facilitator: Steffen Franz, DE*

CONTINUE ▶

13:45 - 15:15	**WS041 - Sampling strategy for the interpretation and evaluation of cases of alleged sexual assault Part 2**
	House-Room: NL-359 *WS-facilitator: Charlotte Murphy, IE*
13:45 - 15:15	**WS044 - First results of the Cyclopes Project**
	House-Room: NL-463 *WS-facilitator: Peter Van De Crommert, NL*

NOTES

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