

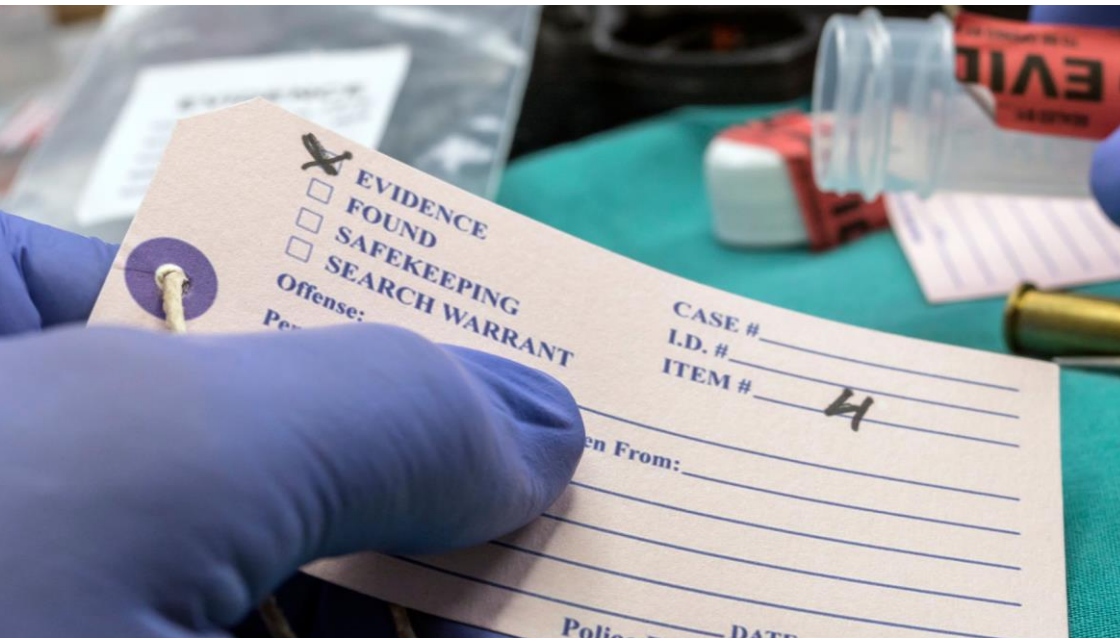


THE ASIAN FORENSIC SCIENCES NETWORK (AFSN) ANNUAL MEETING AND SYMPOSIUM 2022

2-5 November 2022, Jakarta

"Enhancing Forensic Science Cooperation in Law Enforcement in Asia-Pacific Towards Post-Pandemic Recovery"

Program Booklet



Foreword from our *Chief of Committee*

Dear Speakers, Authors, and Esteemed Participants,

It is with deep satisfaction that I write this foreword to the 14th Asian Forensic Sciences Network Symposium and Conference in Jakarta, 2 to 5 November 2022. The topic of this year conference is “Enhancing Forensic Science Cooperation in Law Enforcement in Asia Towards Post-Pandemic Recovery”.

The Asian Forensic Sciences Network (AFSN) was formed in 2008 with the purpose of having a platform for forensic scientists in Asia to come together to discuss, share, and advance forensic sciences, where it holds an annual meeting every year for its members. We have grown from 6 member institutes from 6 countries in 2008 to 62 member institutes from 17 countries (as of September 2021). Currently, AFSN has 9 technical workgroups (Crime Scene Investigation, Digital Forensics, DNA, Fingerprint, Forensic Medicine, Illicit Drugs, Toxicology, Trace Evidence, Questioned Document) and a Quality Assurance and Standards Committee.

The conference particularly encourages the interaction of developing forensic scientists, forensic practitioner in law enforcement agency and forensic researchers with the more established academic community in an informal setting to present and to discuss new and current work in forensic sciences. Their contributions help to make the conference as outstanding as it has been.

These proceedings will furnish the forensic scientists of the world with excellent references. I trust that this event will be an impetus to stimulate further study and research in all forensic areas.

We thank all speakers and participants for their contributions.

Jakarta, 24 October 2022

Police Brigadier General dr Nyoman Eddy PW Sp.F. D.F.M.

Chief of the 14th AFSN 2022 Annual Meeting & Symposium Committee



Foreword from AFSN *President*

Dear AFSN Colleagues and Friends,

After a hiatus of two physical annual meetings since we last met in Ho Chi Minh City, Vietnam in 2019, I am very excited to be able to meet physically in Jakarta for our 14th AFSN Annual Meeting & Symposium, which is made possible through the hard work and commitment of the host Indonesian National Police.

The theme for the symposium this year is "*Enhancing Forensic Science Cooperation in Law Enforcement in Asia Towards Post-Pandemic Recovery*", which is a much-needed area for discussion as we recover from the pandemic and re-establish new norms for many aspects of work and processes. Criminals and crime know no borders and hence we need to enhance cooperation not just between different law enforcements, but also between different networks, as well as between different forensic disciplines. I am very happy that this year, there are six workgroups that have paired up to conduct their scientific sessions. I hope that the joint sessions will cross pollinate ideas and create opportunities for more collaboration.

I would like to express my sincere gratitude to the Indonesian National Police and the local organising committee, the AFSN Board, Workgroups/Committee Steering Committees, AFSN Secretariat, generous vendors and exhibitors, invited speakers, and all participants who have come together to make this meeting a reality. I look forward to meeting up with all of you and celebrating yet another successful conference.

dr. Angeline Yap
President
AFSN





PROGRAMME SCHEDULE of 14th AFSN ANNUAL MEETING & SYMPOSIUM JAKARTA 2 – 5 November 2022

TIME	DAY 1 (Wed, 02/11/22)	DAY 2 (Thu, 03/11/22)	DAY 3 (Fri, 04/11/22)	DAY 4 (Sat, 05/11/22)
07.30 – 08.30		REGISTRATION	HOUSEKEEPING ANNOUNCEMENT	
08.30 – 09.00		OPENING CEREMONY	WG SCIENTIFIC SESSIONS	HOUSEKEEPING ANNOUNCEMENT
09.00 – 10.00		KEYNOTE SPEAKER I KAPOLRI		LABORATORY TOUR TO PUSDOKKES / PUSLABFOR & CITY TOUR
10.00 – 10.15		PRESS CONFERENCE & BREAK	BREAK	
10.15 – 11.00		KEYNOTE SPEAKER II Prof. HERAWATI SUDOYO	WG SCIENTIFIC SESSIONS	
11.00 – 11.30		PLENARY SESSION I RACHEL KENNEDY – AFP		
11.30 – 12.00		PLENARY SESSION II Dr. ANNA SECOMBE – ESR	BREAK	
12.00 – 12.15		BREAK	FRIDAY PRAYER AND LUNCH	
12.15 – 12.45		PLENARY SESSION III KBP M. NUH AL AZHAR, M.Sc. – Puslabfor Poli		
12.45 – 13.15		PLENARY SESSION IV TIM SCHELLBERG – Gordon Thomas Honeywell		
13.15 – 14.15		LUNCH		
14.15 – 15.00		QASC WG QUALITY WORK SHOP	WG SCIENTIFIC SESSIONS	
15.00 – 15.15	BOARD MEETING		BREAK	
15.15 – 15.30			WG SCIENTIFIC SESSIONS	
15.30 – 16.30			BREAK	CLOSING CEREMONY
16.30 – 17.00		WG BUSINESS MEETING		
17.00 – 19.00		GALA DINNER		
19.00 – 21.00				



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SCIENTIFIC SESSION – CLASSROOM 106

FORENSIC MEDICINE WORKGROUP

Oral Presentation Schedule

DATE	TIME	GIVEN TIME (MINUTES)	TITLE
Thu, 3 Nov 2022	14:15 - 14:45	30	Indonesian DVI Experiences: Identification Process in Mass Disaster by Dr. A. Nyoman Eddy Purnama Wirawan / Chief of Police Medical Bureau, INP
	14:45 - 15:15	30	Forensic Medicine in Thailand: The Struggle and Success Stories Dr. Panjai Woharndee, Director of Forensic Science Services Division CIFS, Thailand
	15:15 - 15:30	15	Coffee break
	15:30 - 16:00	30	Forensic Light Source as Excellent Tool in The Detection of Bruise by Dr. Ade Firmansyah Sugiharto / Indonesian Association of Forensic Pathologists
	16:00 - 16:45	45	Age Estimation: Methods Development in Forensic Odontology Nurtami Soedarsono, DDS, PhD. / Indonesian Society of Forensic Odontology
Fri, 04 November 2022	08:30 - 08:45	15	RELN Protocol Ignatius N.S. / Dept. of Forensic Science, Postgraduate School Airlangga University, Indonesia
	08:45 - 09:00	15	Wound Age Estimation: An Evidence-Based Case Report Made Ayu Mira Wiryaningsih, Fitri Ambar Sari / University of Indonesia
	09:00 - 09:15	15	Guiding principles for the management of deceased persons- Examples of Forensic action from Indonesia Sari Lestari Tjiang, Davette Gadison, Udo Krenzer / ICRC
	09:15 - 09:30	15	Forensic Autopsy on a Near-Total Penetrating Thoracic Cavity Injury: A Case Report Yudy, Olga Andrienne Pangestika / Indonesian Association of Forensic Pathologist
	09:30 - 09:45	15	The Role of Doctors in Supporting the Implementation of Indonesian Sexual Violence Criminal Act (<i>Undang-Undang no.12 Tahun 2022</i>) Mohammad Ardhan Syaifuddin / Dr. Cipto Mangunkusumo Hospital, Indonesia.
	09:45 - 10:00	15	Multiple Chop Wounds in Domestic Violence with Perpetrator Who Have History of Mental Disorders Raja Al Fath Widya Iswara / The Indonesian Association of Forensic Medicine
	10:00 - 10:15	15	Coffee break
	10:15 - 10:30	15	Autopsy After Exhumation: A Theft by Weight Sari Nur Indahty Pumamaningsih / Dept. of Forensic and Legal Medicine, Airlangga University
	10:30 - 10:45	15	Clinical Forensic Examination On A Confirmed Covid-19 Patient Who Has A Traffic Accident: Intracerebral Hematome and Moderate Brain Injury Wiwin Ida Nur Sri Wahyuni / Postgraduate School of Airlangga University, Indonesia



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SCIENTIFIC SESSION – CLASSROOM 201

TRACE EVIDENCE WORKGROUP

Oral Presentation Schedule

DATE	TIME	GIVEN TIME (MINUTES)	TITLE
Thu, 3 Nov 2022	14:15 - 15:15	60	Isotope fingerprints – a powerful tool for food integrity and forensic investigations Qiong Li & Sylveer Bergs / Thermo Fisher
	15:15 - 15:30	15	Coffee break
	15:30 - 16:30	60	Isotope fingerprints – a powerful tool for food integrity and forensic investigations Qiong Li & Sylveer Bergs / Thermo Fisher
	16:30 - 17:00	30	Application And Case Study Of Isotope Analysis In Forensic Science Dongkye Lee, Forensic Chemistry Division / National Forensic Service, Republic of Korea
	17:00 - 17:30	30	Break
	17:30 - 19:00	90	TEWG Business Meeting
Fri, 04 November 2022	08:30 - 08:35	5	Introduction and welcome speech by TEWG Chair
	08:35 - 08:50	15	A Collaborative Exercise for Forensic Glass Evidence Season 2 Dongkye Lee / Forensic Chemistry Division, National Forensic Service, Republic of Korea
	08:50 - 09:10	20	ABO Bloodgroups Analysis On Bloodstain Using FT-IR Spectroscopy By Chemometrics Racy Youngest / Airlangga University, Indonesia
	09:10 - 09:30	20	Analysis Of Paints Evidence from Marine Accidents – A Case Study Heesu Kim / Chemical Analysis Research Team, Korea Coast Guard Research Center, Republic of Korea
	09:30 - 10:00	30	How Far Apart Can Soil Be Distinguished – A Singapore Perspective Jolene Low / Forensic Chemistry & Physics Laboratory, Health Sciences Authority, Singapore
	10:00 - 10:15	15	Coffee break
	10:15 - 10:40	25	Triacetone Triperoxide (TATP) Explosive Residue Examination In A Bomb Explosion Case Jakaria Sembiring / Center Forensic Laboratory of Indonesia National Police, Indonesia
	10:40 - 10:55	15	1st Collaborative Exercise of Paint Evidence
	10:55 - 11:10	15	Review Of 6th AFSN Fibre Collaborative Exercise 2022
	11:10 - 11:30	20	A Comprehensive Understanding of Background Levels of PDMS in Condom Trace Evidence Hyun Kyoung Ju / Forensic Toxicology & Chemistry Department, Seoul Institute, South Korea, National Forensic Service
	11:30 - 11:45	15	Forensic Fibres and Textile Damage Examination Survey Jogie Ko / Forensic Chemistry & Physics Laboratory, Health Sciences Authority, Singapore



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JOINT SCIENTIFIC SESSION – CLASSROOM 204 QUESTIONED DOCUMENT & DIGITAL FORENSIC WORKGROUP Oral Presentation Schedule

DATE	TIME	GIVEN TIME (MINUTES)	TITLE
Thu, 3 Nov 2022	14:15 - 14:30	15	Introduction and welcome speech by DFWG Steering Committee representative and QD WG Chair
	14:30 - 14:45	15	The Forensic Examination of fonts in Malaysia Wan Rahimah binti Wan Ahmad / Department of Chemistry Malaysia
	14:45 - 15:00	15	Cryptocurrencies Preservation Procedures: Case Study, Lessons Learnt and Recommendations Sharifah Nurul Asyikin Syed Abdullah, Sarah Khadijah Taylor, Norhafizah Binti Hashim, Akmaluriani Binti Mohamed Rakof / Digital Forensics Department, CyberSecurity Malaysia
	15:00 - 15:15	15	Signature Analysis in Document Forgery Rochani, Rian Aprilian, Eri Hermansyah, Fatih Rakhmawati / Center of Forensic Laboratory of Indonesia National Police
	15:15 - 15:30	15	Coffee break
	15:30 - 16:00	30	QDWG Collaborative Exercise 2022 Results Wan Rahimah binti Wan Ahmad / Department of Chemistry Malaysia
	16:00 - 16:15	15	ISO 17025 Accreditation in 14 months: Challenges, lesson learnt and recommendation Nurul Husna binti Mohamad Nor Hazalin, Sarah Khadijah Taylor / CyberSecurity Malaysia
Fri, 04 November 2022	09:30 - 09:45	15	Frontline Mobile Forensics with Cloud support Oscar Choi / MSAB
	09:45 - 10:00	15	A synergistic approach to document files: document examination and digital evidence Nellie Cheng, Grace Wong, Louis Koh, Wong Chee Seng / Health Sciences Authority, Singapore
	10:00 - 10:15	15	Coffee break
	10:15 - 10:30	15	Non-Fungible Token (NFT): A new Medium for Money Laundering? Muhammad Muzammil Abdul Rashid, Muhammad Iskandar Shah Abdul Aziz / CyberSecurity Malaysia
	10:30 - 10:45	15	Validation and calibration of an in-house developed lightboard to determine inter-frame timing of video Tan Kai Hou, Grace Wong / Health Sciences Authority, Singapore
	10:45 - 11:00	15	CamOrang- An advanced AI based video analytics system for automated surveillance and evidence gathering Mohammad Zaharudin Ahmad Darus, Nazri Ahmad Zamani / CyberSecurity Malaysia
	11:00 - 11:15	15	Extension of Accreditation Scope: Social Media Account Data Preservation Nur Syafiqah Mohd Shamsuddin, Muhammad Nursyadiq Saian / Malaysian Communications and Multimedia Commission



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JOINT SCIENTIFIC SESSION – CLASSROOM 206

ILLICIT DRUGS & TOXICOLOGY WORKGROUP

Oral Presentation Schedule Day 1

DATE	TIME	GIVEN TIME (MINUTE S)	TITLE
Thu, 3 Nov 2022	14:15 - 14:25	10	Introduction and welcome speech by the WG Chairman Angela Salvador & Moy Hooi Yan
	14:25 - 14:35	10	Analysis of Drugs of Abuse (Including New Psychoactive Substances) in Hair Moy Hooi Yan / Health Sciences Authority, Singapore
	14:35 - 14:50	15	Fully Automated Workflow for Screening, Confirmation, and Quantitation of Illicit Drugs & Drug of Abuse Sandy / Shimadzu
	14:50 - 15:00	10	The enhanced cooperation in the hair drug technical analysis between the related cooperation organizations for defense the readdicted in juvenile Pol. Lt. Col. Ampika Leelapojanaporn / Central Institute of Forensic Science and Department of Juvenile Observation and Protection, Thailand
	15:00 - 15:15	15	Leveraging Mass Spectrometry in Forensic Analysis Dhaval Patel, Ph.D. / Thermo Fisher Scientific
	15:15 - 15:30	15	Coffee break
	15:30 - 15:40	10	Detection p-Fluorophenylpiperazine (4-FPP) and Pharmaceutical Ingredients in Seized Capsules and Tablets: Case Report Carolina T.M Tambunan / National Narcotics Board Republic of Indonesia
	15:40 - 15:50	10	Philippine Trumpet Plants: Exploring Non-regulated Psychoactive Plants Jag O. Soliven / Philippine Drug Enforcement Agency, Laboratory Service,
	15:50 - 16:00	10	Detection of The Synthetic Cannabinoids 5F-MDMB-PICA and 4- MDMB-BUTICA in Human Urine Sample Dwi Asmayanti / National Narcotics Board Republic of Indonesia
	16:00 - 17:30	90	Sampling Workshop Merula Mangudi



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JOINT SCIENTIFIC SESSION – CLASSROOM 206

ILLICIT DRUGS & TOXICOLOGY WORKGROUP

Oral Presentation Schedule Day 2

DATE	TIME	GIVEN TIME (MINUTES)	TITLE
Fri, 04 November 2022	08:30 - 09:00	30	Australian illicit drug trends and drug profiling insights Sarah Bell / Australia Federal Police
	09:00 - 09:10	10	A Report on the Multiple Methamphetamine Profiles Recovered from a Single Drug Operation in Mandaluyong, Philippines Ronald Jefferson A. Narceda / Philippine Drug Enforcement Agency, Laboratory Service, Special Research Division
	09:10 - 09:25	15	Blood Alcohol Analysis in the 21st Century Jackie / Shimadzu
	09:25 - 09:35	10	Automated Liquid Handler in combination with Multi-Experiment of MRM-EPI LC-MS/MS for the determination of Opiates and metabolites in biological specimens – Application to Toxicology Cases in Malaysia Fathiah A. Zubaidi / Department of Chemistry, Malaysia
	09:35 - 09:45	10	Death by Sodium Nitrite Widodo Andreas / Health Sciences Authority, Singapore
	09:45 - 10:00	15	Automate your Laboratory Workflow for Quality Sample Analysis – Volatile to Non-Volatile Analysis Dr. Christina Liew / Gerstel
	10:00 - 10:15	15	Coffee break
	10:15 - 10:25	10	Application of gas chromatography mass spectrometry technique for the screening of adulterants in seized captagon tablets Vanita Kunalan / Department of Chemistry Malaysia
	10:25 - 10:35	10	Drug Screening with Handheld Raman Spectrometry Yvonne Tan / Health Sciences Authority, Singapore
	10:35 - 10:50	15	Fast Screening for Forensic with Waters Solutions Terence Chua / Waters
	10:50 - 11:00	10	A Drug Lab Surviving the COVID-19 Pandemic Wong Yong Shiang / Department of Chemistry, Malaysia
	11:00 - 11:10	10	Identification of the Active Ingredients Misoprostol in Urine and Blood in Abortion Cases Faizal Rachmad / Center of Forensic Laboratory of Indonesia National Police
	11:10 - 11:20	10	Inspection of pharmaceutical appliances in the form of jamu in the jurisdiction of the Jabar Polda Kompok Denni Afriadi / Center of Forensic Laboratory of Indonesia National Police
	11:20 - 11:30	10	The Versatile 7250 GC/Q-TOF: From the Knowns to the Unknowns, MS/MS and Accurate Mass Dr Ben Davies / Agilent
12:45 - 14:15	90	TX WG Business Meeting	



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JOINT SCIENTIFIC SESSION – CLASSROOM 205

FINGERPRINT & CRIME SCENE INVESTIGATION WORKGROUP

Oral Presentation Schedule

DATE	TIME	GIVEN TIME (MINUTES)	TITLE
Thu, 3 Nov 2022	14:15 - 14:30	15	Utilization of Siliceous Microalgae in Solving Drowning Cases Dr. Surender Kumar Pal / Directorate of Forensic Services, Himachal Pradesh, Shimla Hills, Junga, India
	14:30 - 15:00	30	Disaster Victim Identifications during the Marawi City Siege, Philippines PCOL Mary Leocy J Mag-Abo / Philippine National Police Forensic Group
	15:00 - 15:15	15	In pursuit of shooting range estimation from characterization of the inorganic GSR markers by SEM-EDX and XRF coupled with chemometric techniques Ankit Srivastava / The West Bengal National University of Juridical Sciences, Kolkata, India
	15:15 - 15:30	15	Coffee break
	15:30 - 16:30	60	Workshop session: Bloodstain Pattern Analysis (BPA) – characteristics and classification Phua Zai Rong / Health Sciences Authority, Singapore
Fri, 04 November 2022	08:30 – 08:45	15	Recent Advances in Fingermark Process Validation Richard Evans / Foster and Freeman
	08:45 - 09:00	15	Development of One Touch All-In-One Portable Multi-wavelength Forensic Lightsource Choon-Soo Park, Department of Scientific Investigation, Seoul
	09:00 - 09:15	15	Fingerprint Examination Standards (ACE-V) Saesario Putra, Pusinafis, Indonesian National Police
	09:30 - 09:45	15	Airsoft Gun Mechanical Changes and their Impact on Street Crime Arif Sumirat / Center of Forensic Laboratory of Indonesia National Police
	09:45 - 10:00	15	CSIWG BPA Collaborative Exercise 2022 Louis WM Koh / Health Sciences Authority, Singapore



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SCIENTIFIC SESSION – AUDITORIUM STIK

DNA WORKGROUP
Oral Presentation Schedule

DATE	TIME	GIVEN TIME (MINUTES)	TITLE
Thu, 3 Nov 2022	14.15 – 14.25	10	Welcome Speech by the DNA WG Chair
	14.25 – 14.45	20	7th AFSN Inter-Laboratory DNA Exercise Juliana Sim / Health Sciences Authority, Singapore
	14.45 – 15.00	15	The Effectiveness of the Current Use of Forensic DNA Databank Malaysia (FDDM) in Criminal Investigations in Malaysia Mohd Nor Azlan Rashid (Inspector) / Royal Malaysia Police
	15.00 – 15.15	15	The DNA Analysis of Mixture Blood in Water Vira Saamia / Center of Forensic Laboratory of Indonesian National Police
	15.15 – 15.30	15	Coffee break
	15.30 – 15.55	25	The Power of 8 Colors: Next Generation CE STR Analysis Rohaizah James / Promega Corporation
	15.55 – 16.15	20	Success Rates of DNA Profiling in Actual Casework Specimens from Bone and Teeth Samples Sheila Marie T Angustia / Philippine National Police-Forensic Group
	16.15 – 16.35	20	Validation of MPS methods and Applied test in Forensic Cases Taehee Um / Supreme Prosecutors' Office, Republic of Korea
	16:35 - 17:35	60	DNAWG Business Meeting
Fri, 04 November 2022	08.30 – 09.00	30	Mobile Applied Biosystems Rapid HIT ID Demo Richardus Hugo / Thermo Fisher Scientific
	09.00 – 09.20	20	Evaluation of the RapidHIT® ID System to analyse crime scene samples Siti Afifah Ismail (ASP) / Royal Malaysia Police
	09.20 – 09.40	20	Evaluation of 165 Ancestry-Informative SNPs for Asian populations Haeun You / Seoul National University College of Medicine, Republic of Korea
	09.40 – 10.00	20	Comparison of DNA Recovery from Differential Extraction of Semen Stain on Cloth Substrate using PrepFiler Express™ on AutoMate Express™ Forensic DNA Extraction System and Chelex technique. Nur Hafiza Md Yusop / Department of Chemistry (KIMIA), Malaysia
	10.00 – 10.15	15	Coffee break
	10.15 – 10.35	20	Forensic Investigation 2.0 – New NGS Tools to Assist Law Enforcement Laurent Baron / QIAGEN-Verogen
	10.35 – 10.55	20	Experience Sharing - Application of Probabilistic Genotyping in KIMIA Malaysia via STRmix Zulhildi Husni / Department of Chemistry (KIMIA), Malaysia
	10.55 – 11.15	20	AFSN DNAWG Activities in 2023 Nor Aidora Saedon / Department of Chemistry (KIMIA), Malaysia

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