

Program of JAFST 12th Annual Meeting

Total time provided for oral presentation: **12 minutes**

9 minutes to present materials

3 minutes to answer questions

1st Day (Thursday, November 9th, 2006)

	Hall 1 (1F "Fuji")	Hall 2 (1F "Hagoromo")	Hall 3 (2F "Fuyo-Higashi")	Hall 4 (2F "Fuyo-Nishi")	3F "Kujaku"
	Opening Ceremony (8:50 - 8:55, Hall 1)				
9:00	Forensic Biology A-1 - A-3 9:00 - 9:36	Forensic Chemistry C-1 - C-4 9:00-9:48	Forensic Engineering [Acoustics] D-1 - D-2 9:00 - 9:24 [Explosives] D-3 - D-6 9:30 - 10:18 [Fire] D-7 - D-9 10:24 - 11:00	Forensic Engineering [General Engineering] D-22 - D-25 9:00 - 9:48 [Image Processing] D-26 - D-30 10:00 - 11:00	Analytical Equipment Exhibition 11:00 - 17:00
11:00	A-4 - A-7 9:48 - 10:36	C-5 - C-9 9:55 - 10:55			
	Plenary Lecture (11:10 - 12:10, Hall 1)				
	Lunch Time (12:10 - 13:00)				
	General Meeting (13:00 - 13:30, Hall 1)				
13:00					
13:40	Forensic Biology A-8 - A-10 13:40 - 14:16 A-11 - A-13 14:28 - 15:04 A-14 - A-18 15:16 - 16:16	Forensic Chemistry C-10 - C-13 13:40 - 14:28 C-14 - C-17 14:28 - 15:16 C-18 - C-21 15:26 - 16:14 C-22 - C-25 16:14 - 17:02	Forensic Engineering [Fire] D-10 - D-13 14:10 - 14:58 D-14 - D-17 15:10 - 15:58 D-18 - D-21 16:12 - 17:00	Crime Scene Investigation E-1 - E-4 14:10 - 14:58 E-5 - E-8 15:10 - 15:58 E-9 - E-12 16:12 - 17:00	
16:16					
17:02					
	Banquet (17:30 - 19:30, Hall 1)				

2nd Day (Friday, November 10th, 2006)

	Hall 1 (1F "Fuji")	Hall 2 (1F "Hagoromo")	Hall 3 (2F "Fuyo-Higashi")	Hall 4 (2F "Fuyo-Nishi")	3F "Kujaku"
9:00	Forensic Biology A-19 - A-21 9:00 - 9:36	Forensic Chemistry C-26 - C-30 9:00 - 10:00	Forensic Engineering [Firearms & Toolmarks] D-31 - D-34 9:00 - 9:48	Forensic Psychology F-1 - F-6 9:00 - 10:12	Analytical Equipment Exhibition 9:00 - 14:00
9:36		C-31 - C-34 10:10 - 10:58	D-35 - D-38 10:00 - 10:48	F-7 - F-11 10:30 - 11:30	
10:00	Forensic Toxicology B-1 - B-5 10:00 - 11:00 B-6 - B-9 11:05 - 11:53	C-35 - C-38 11:08 - 11:56	D-39 - D-41 11:00 - 11:36		
12:00					
	Lunch Time (12:00 - 12:45)				
12:45	Forensic Toxicology B-10 - B-13 12:45 - 13:33 B-14 - B-17 13:37 - 14:25 B-18 - B-21 14:30 - 15:18	Forensic Chemistry C-39 - C-43 12:45 - 13:45	Forensic Engineering [Mechanical Eng.] D-42 - D-44 12:45 - 13:21 [Traffic Accidents] D-45 - D-48 13:30 - 14:18 D-49 - D-53 14:30 - 15:30	Forensic Document Examination G-1 - G-7 12:45 - 14:09 G-8 - G-12 14:20 - 15:20 G-13 - G-19 15:30 - 16:54	
15:18					
17:00					

Plenary Lecture

Hall 1, Thursday, November 9th

11:10-12:10

Chairperson: Tohru Kishi (National Research Institute of Police Science)

Scientific Statement of Expert Opinion and Citizen Judge System

Yoshinao Katsumata (National Research Institute of Police Science)

Oral Presentations

Forensic Biology (A)

Hall 1, Thursday, November 9th

9:00-9:36 *Chairperson: K. Sakurada (National Research Institute of Police Science)*

- A-1 Human identification using commercial antibody - Specificity to various human body fluid by ELISA -
*M. Nojiri, K. Tsukada, Y. Kurasawa and K. Kasahara (Criminal Investigation Laboratory, Nagano Pref. Police H.Q.)
- A-2 Species identification by IgA assay kit
*K. Hamada and Y. Uchimura (Forensic Science Laboratory, Kumamoto Pref. Police H.Q.)
- A-3 Specificity of Rapid Stain Identification (RSID)
*K. Kasahara^{*1}, T. Morikawa^{*2}, M. Nojiri^{*1}, Y. Kurasawa^{*1} and K. Tsukada^{*1} (Criminal Investigation Laboratory, Nagano Pref. Police H.Q.^{*1}, Forensic Science Laboratory, Hiroshima Pref. Police H.Q.^{*2})

9:48-10:36 *Chairperson: H. Nakamura (Criminal Investigation Laboratory, Shimane Pref. H.Q.)*

- A-4 Detection of seminal fluid by 8-hydroxyquinoline staining
*Y. Hayano, Y. Yamaguchi and S Fukushima (Forensic Science Laboratory, Fukuoka Pref. Police H.Q.)
- A-5 Identification of sweat stain using HPLC
*D. Hino, M. Miyoshi, H. Nakayama, H. Moriyoshi, T. Morikawa, S. Nakaki and K. Itohara (Forensic Science Laboratory, Hiroshima Pref. Police H.Q.)
- A-6 An estimate of the original region of sweat and dirt (1)
*H. Oka (Forensic Science Laboratory, Fukushima Pref. Police H.Q.)
- A-7 Application of ABO sphia to identification
*M. Kane (Forensic Science Laboratory, Shiga Pref. Police H.Q.)

13:40-14:16 *Chairperson: T. Komuro (Nihon Univ. School of Dentist ̄)*

- A-8 The computerized correction for optical distortion of facial images in face – to –face superimposition ()
*H. Biwasaka^{*1}, T. Tokuta^{*1}, Y. Sasaki^{*1}, T. Takagi^{*2}, H. Tanijiri^{*3}, S. Miyasaka^{*4} and Y. Aoki^{*5} (Science Crime Detection Laboratory, Iwate Pref. Police H.Q.^{*1}, Science Crime Detection Laboratory, Miyagi Pref. Police H.Q.^{*2}, Medic Engineering Co.^{*3}, National Research Institute of Police Science^{*4}, Department of Legal Medicine, Iwate Medical University, School of Medicine^{*5})
- A-9 Facial aging analysis using 3D facial image superimposition system
*M. Atsuchi^{*1,3}, S. Miyasaka^{*2}, S. Fukushima^{*1} and N. Ikeda^{*3} (Forensic Science Laboratory, Fukuoka Pref. Police H.Q.^{*1}, National Research Institute of Police Science^{*2}, Graduate School of Medical Sciences, Kyushu Univ.^{*3})
- A-10 A forensic biological study of lamina dura, - Radiographical investigation of the extracted tooth socket.
*Y. Sato^{*1,2}, A. Ueno^{*2}, Y. Hanaoka^{*3}, T. Tsuzuki^{*4} (Satoh Dental Clinic^{*1}, Department of Legal Medicine, Kyorin Univ. School of Medicine^{*2}, Department of Forensic Odontology, Tokyo Dental College^{*3}, Center of Legal Medicine of Dentology, Nippon Dental Univ. School of Life Dentology at Tokyo^{*4})

14:28-15:04 *Chairperson: M. Kane (Criminal Investigation Laboratory, Shiga Pref. H.Q.)*

- A-11 Y-chromosome 17 loci STR haplotypes in a population sample from Oita
*Y. Yamada^{*1,2}, T. Ono^{*1}, Y. Tomisaka^{*1}, E. Nishi^{*1} and T. Kishida^{*2} (Criminal Investigation Laboratory, Oita Pref. Police H.Q.^{*1}, Department of Legal Medicine, School of Medicine, Oita Univ.^{*2})
- A-12 Detection of human DNA from forensic samples
*H. Nakahara, K. Kasai (National Research Institute of Police Science)
- A-13 Application of direct PCR for STR typing using Ampdirect[®] with AmpFISTR[®] Identifier Kit
*H. Inoue^{*1}, H. Motani^{*2}, Y. Sato^{*2} and H. Iwase^{*2} (Forensic Science Laboratory, Chiba Pref. Police H.Q.^{*1}, Department

of Legal Medicine, Graduate School of Medicine, Chiba Univ.^{*2)}

15:16-16:16 *Chairperson: K. Kasai (National Research Institute of Police Science)*

A-14 Influence of saliva's contamination in DNA typing

*T. Nakagawa, T. Ohno, M. Doi, H. Miyake and T. Okiura (Forensic Science Laboratory, Ehime Pref. Police H.Q.)

A-15 The effects of laundering on the forensic identification of seminal stains

*T. Ono, Y. Yamada, Y. Tomisaka and E. Nishi (Criminal Investigation Laboratory, Oita Pref. Police H.Q.)

A-16 Sperm DNA extraction efficiency using the DifferexTM System.

*K. Tsukada, M. Nojiri, Y. Kurasawa and K. Kasahara (Criminal Investigation Laboratory, Nagano Pref. Police H.Q.)

A-17 Detection of mtDNA from sexual mixed samples by the Laser Microdissection method

*S. Katsumura^{*1}, K. Sato^{*2}, H. Motani^{*3}, H. Iwase^{*3} and T. Sato^{*1} (Department of Anatomy, Tsurumi University School of Dental Medicine^{*1}, Department of Forensic Medicine and Dentistry, Tsurumi University School of Dental Medicine^{*2}, Department of Legal Medicine, Graduate School of Medicine, Chiba University^{*3})

A-18 A case report of a male sample typed XX at Amelogenin locus using AmpFI STR Profiler Kit

*N. Takada, T. Takayama, R. Suzuki, S. Nagaoka and Y. Watanabe (Criminal Investigation Laboratory, Gifu Pref. Police H.Q.)

Hall 1, Friday, November 10th

9:00-9:36 *Chairperson: Y. Doi (Criminal Investigation Laboratory, Okayama Pref. H.Q.)*

A-19 Species identification by means of the mitochondrial DNA hypervariable regions

*H. Nakamura^{*1}, S. Imamura^{*1}, T. Muro^{*1} and I. Yuasa^{*2} (Criminal Investigation Laboratory, Shimane Pref. Police H.Q.^{*1}, Division of Legal Medicine, Faculty of Medicine, Tottori Univ.^{*2})

A-20 Discrimination of insects using the DNA sequence analysis

*H. Yamauchi, M. Harada and R. Tajima (Safety Science Institute, Quality Assurance Division, Suntory Ltd.)

A-21 Identification and quantitative detection of Legionella pneumophila

*Y. Fujinami and J. Yasuda (National Research Institute of Police Science)

Forensic Toxicology (B)

Hall 1, Friday, November 10th

10:00-11:00 *Chairperson: M. Yoshida (Department of Legal Medicine, Kansai Medical Univ.)*

B-1 A Study on the profiling of ecstasy tablets by stable isotope ratio analysis

*Y. T. Iwata, H. Inoue, K. Kuwayama, K. Tsujikawa, H. Miyaguchi, T. Kanamori and T. Kishi (National Research Institute of Police Science)

B-2 Determination of MDMA in tablet by FTIR

*A. Ishiba, S. Okuyama and M. Hida (Criminal Investigation Laboratory, Aichi Pref. Police H.Q.)

B-3 Discriminative field analysis of methamphetamine and their related compounds in urine using drug test-kit

*T. Rai, M. Amemiya, K. Shinoda and H. Sekine (Criminal Investigation Laboratory, Saitama Pref. Police H.Q.)

B-4 Discrimination of 3,4,5-trimethoxyamphetamine (TMA) and its isomers

*K. Zaitzu^{*1}, H. Kamata^{*1}, A. Miki^{*1}, M. Katagi^{*1}, T. Iwamura^{*2} and H. Tsuchihashi^{*1} (Forensic Science Laboratory, Osaka Pref. Police H.Q.^{*1}, Gifu Pharmaceutical Univ.^{*2})

B-5 Synthesis and simultaneous analysis of six hallucinogenic phenethylamines

*K. Kanai^{*1}, A. Mochizuki^{*1}, N. Nakazawa^{*1}, K. Takekawa^{*1} and T. Ohmori^{*2} (Forensic Science Laboratory, Yamanashi Pref. Police H.Q.^{*1}, National Research Institute of Police Science^{*2})

11:05-11:53 *Chairperson: Y. T. Iwata (National Research Institute of Police Science)*

B-6 Microextraction of methamphetamine using OMIX® pipette tips

*Y. Suzuki, M. Sato and T. Kaneko (Forensic Science Laboratory, Chiba Pref. Police H.Q.)

B-7 Stereoisomer identification of norephedrine derived from methamphetamine or amphetamine in human urine, and its enantioselective metabolism

*K. Matsushima^{*1}, J. Maeda^{*2}, T. Nagai^{*2} and S. Tokudome^{*2} (Forensic Science Laboratory, Tochigi Pref. Police HQ^{*1}, Department of Legal Medicine, Dokkyo Univ. of Medicine^{*2})

B-8 The metabolism of a newly controlled drug 2C-T-7 in rat

*T. Kanamori, K. Kuwayama, K. Tsujikawa, H. Miyaguchi, Y. Iwata, H. Inoue and T. Kishi (National Research Institute of Police Science)

B-9 Determination of the conjugates of p-OHMA and HMMA in the blood from MA and MDMA users

*N. Shima, H. T. Kamata, T. Kamata, M. Nishikawa, M. Katagi and H. Tsuchihashi (Forensic Science Laboratory, Osaka Pref. Police H.Q.)

12:45-13:33 *Chairperson: K. Matsushima (Forensic Science Laboratory, Tochigi Pref. Police HQ)*

B-10 A study on screening method of drugs by capillary electrophoresis

- *O. Takashima (Science Crime Laboratory, Tottori Pref. Police H.Q.)
- B-11 Quantification of blood histamine and tryptase in fatal case suspected to anaphylactic shock
*K. Tsuge, T. Ohmori, M. Kanamori, I. Ohsawa, Y. Takayama, R. Sekioka and Y. Seto (National Research Institute of Police Science)
- B-12 Analysis of minocycline using high performance liquid chromatography with electrochemical detector and ultraviolet detector
*M. Yoshida^{*1}, A. Akane^{*1}, M. Nishikawa^{*2}, M. Katagi^{*2} and H. Tsuchihashi^{*2} (Department of Legal Medicine, Kansai Medical Univ.^{*1}, Forensic Science Laboratory, Osaka Pref. Police H.Q.^{*2})
- B-13 LC/MS analysis of convallatoxin
*Y. Adachi (Forensic Science Laboratory, Hokkaido Asahikawa Area Police H.Q.)
- 13:37-14:25 *Chairperson: H. Ohta (National Research Institute of Police Science)*
- B-14 Quantitative analysis of muscimol in serum in a fatal intoxicated case of Amanita muscaria
*K. Yamaguchi and H. Sekine (Forensic Science Laboratory, Saitama Pref. Police H.Q.)
- B-15 High sensitive and selective analysis of lithium ion using crown ether by LC/MS
*K. Wakigawa, H. Mohri, A. Gohda, M. Matsumoto and S. Fukushima (Forensic Science Laboratory, Fukuoka Pref. Police H.Q.)
- B-16 Simultaneous analysis of pyrethroid pesticides (2) - GC/MS and TLC -
*Y. Iwamuro^{*1}, S. Chinaka^{*1}, R. Iio^{*1}, N. Takayama^{*1}, Y. Kazui^{*2}, H. Ohta^{*2} and O. Ohtsuru^{*2} (Forensic Science Laboratory, Ishikawa Pref. Police H.Q.^{*1}, National Research Institute of Police Science^{*2})
- B-17 Simultaneous analysis of pyrethroid pesticides (3) - LC/MS -
*S. Chinaka^{*1}, Y. Iwamuro^{*1}, R. Iio^{*1}, N. Takayama^{*1}, Y. Kazui^{*2}, H. Ohta^{*2} and O. Ohtsuru^{*2} (Forensic Science Laboratory, Ishikawa Pref. Police H.Q.^{*1}, National Research Institute of Police Science^{*2})
- 14:30-15:18 *Chairperson: H. Chinaka (Forensic Science Laboratory, Ishikawa Pref. Police H.Q.)*
- B-18 Spectrometric determination of carboxyhemoglobin in blood stain
*A. Watanabe and T. Ikeda (Forensic Science Laboratory, Hokkaido Kitami Area Police H.Q.)
- B-19 Analysis of benzalkonium in human blood by LC/MS
*N. Tomioka^{*1}, Y. Adachi^{*2}, Y. Narita^{*1} and S. Hazama^{*1} (Forensic Science Laboratory, Hokkaido Police H.Q.^{*1}, Forensic Science Laboratory, Hokkaido Asahikawa Area Police H.Q.^{*2})
- B-20 Analysis of antiseptics in hemolyzed blood by LC/ESI-MS
*N. Tachiiri, K. Usui, S. Sasaoka, K. Saito and K. Miura (Forensic Science Laboratory, Miyagi Pref. Police H.Q.)
- B-21 Analysis of phosphorus-containing amino acid herbicides by hydrophilic chromatography (HILIC)-LC-MS
*H. Ohta, Y. Kazui and O. Ohtsuru (National Research Institute of Police Science)

Forensic Chemistry (C)

Hall 2, Thursday, November 9th

- 9:00-9:48 *Chairperson: T. Kaneko (Forensic Science Laboratory, Chiba Pref. Police H.Q.)*
- C-1 Extraction of accelerants from fire debris by direct-contact Solid-phase Microextraction (SPME) method
*H. Yoshida and S. Suzuki (National Research Institute of Police Science)
- C-2 An analysis example of the fire residues burned with gasoline
*N. Kawamoto^{*1}, Y. Kaneko^{*1}, Y. Kobayashi^{*1}, T. Morimoto^{*2}, F. Yokoyama^{*2} and O. Sugawa^{*3} (Analysis Center Co., Ltd.^{*1}, Japan Specialist in Law Engineering Corporation^{*2}, Tokyo University of Science, SUWA^{*3})
- C-3 *n*-Alkylcyclohexanes as a marker for detection of petroleum contaminated with alkanes from plastic
S. Kurata and *T. Iyozumi (Criminal Investigation Laboratory, Metropolitan Police Department)
- C-4 Behavior of the Coumarin in marine environment
*M. Taki, J. Hamamura and Y. Kawaharayama (Japan Coast Guard Research Center)
- 9:55-10:55 *Chairperson: M. Suzuki (Forensic Science Laboratory, Ehime Pref. Police H.Q.)*
- C-5 Analysis of 2-stroke engine oils by pyrolysis-gas chromatography-mass spectrometry
*T. Shibayama, K. Suga, M. Kumihashi and H. Miyauchi (Forensic Science Laboratory, Kagawa Pref. Police H.Q.)
- C-6 Discrimination of fats and oils (3) - Analysis of edible oils
*K. Yamaguchi (Criminal Investigation Laboratory, Metropolitan Police Department)
- C-7 Detection of malodorant to prove city gas leak
*M. Hata, S. Yoshiyagawa and F. Yonebayashi (Forensic Science Laboratory, Hokkaido Kushiro Area Police H.Q.)
- C-8 Application of NeedleExTM to the analysis of chemical weapons (CA)
*F. Ishizawa and T. Ishiwata (Forensic Science Laboratory, Ibaraki Pref. Police H.Q.)
- C-9 Comparison of microextraction technique
*M. Sato, Y. Suzuki and T. Kaneko (Forensic Science Laboratory, Chiba Pref. Police H.Q.)
- 13:40-14:28 *Chairperson: M. Kikuchi (Forensic Science Laboratory, Niigata Pref. Police H.Q.)*

- C-10 Analysis of illegally-dumped filthy water
*T. Ishiwata, F. Ishizawa, K. Miyata, T. Yoshida and S. Kirihara (Forensic Science Laboratory, Ibaraki Pref. Police H.Q.)
- C-11 Discrimination of the natural trace evidence in microscopy -Components of Shichimi-
*M. Kanda and H. Honma (Forensic Science Laboratory, Yamaguchi Pref. Police H.Q.)
- C-12 Analyses of artificial leather
*T. Sano (Forensic Science Laboratory, Chiba Pref. Police H.Q.)
- C-13 Qualitative analysis of serpentine group and quantitative analysis of chrysotile (asbestos) in rubber products
*M. Suzuki, T. Watanabe and Y. Ohtake (Chemicals Evaluation and Research Institute, Japan)
- 14:28-15:16 *Chairperson: R. Sugita (National Research Institute of Police Science)*
- C-14 Examination of nondestructive forensic identification method of brown envelope (90mm×205mm JIS Standard)
*M. Suzuki and E. Shinozaki (Forensic Science Laboratory, Ehime Pref. Police H.Q.)
- C-15 Classification of visiting cards by a multivariate analysis
*T. Goto, K. Kurata and Y. Matsuyama (Forensic Science Laboratory, Shizuoka Pref. Police H.Q.)
- C-16 Discrimination of elastic bandages
*K. Tsuchimichi, M. Takeuchi, A. Nakamoto, M. Yahata and T. Kuramoto (Forensic Science Laboratory, Hiroshima Pref. Police H.Q.)
- C-17 Examination of Transferred single fibers from textiles of sanitary items to suspect's fingers
*K. Ichikawa^{*1} and H. Miyata^{*2} (Criminal Investigation Laboratory, Metropolitan Police Department^{*1}, Identification Division, Criminal Investigation Bureau, National Police Agency^{*2})
- 15:26-16:14 *Chairperson: H. Iida (Forensic Science Laboratory, Hokkaido Police H.Q.)*
- C-18 Application of new ATR-imaging technique
*A. Ohnishi, M. Morimoto and H. Kimura-Suda (Perkin-Elmer Japan Co., Ltd.)
- C-19 Infrared spectra of CaCO₃ samples in plastic products
*Y. Higashikawa and S. Suzuki (National Research Institute of Police Science)
- C-20 Analysis of black toner by Py-GC/MS
*H. Kanno, Y. Watanabe and M. Ohwada (Forensic Science Laboratory, Fukushima Pref. Police H.Q.)
- C-21 Development of mass spectrum library for Analysis of packing materials by pyrolysis-gas chromatography-mass spectrometry
*A. Hosaka^{*1}, S. Takeda^{*1}, K. Matsui^{*1}, C. Watanabe^{*1} and S. Tsuge^{*1,2} (Frontier Laboratories Ltd.^{*1}, Aichi Institute of Technology^{*2})
- 16:14-17:02 *Chairperson: S. Watanabe (Forensic Science Laboratory, Hyogo Pref. Police H.Q.)*
- C-22 Making of simple spectrum camera and the applications
*Y. Kobayashi^{*1}, N. Kawamoto^{*1}, T. Sato^{*1}, Y. Kaneko^{*1} and T. Sasaki^{*2} (Analysis Center Co., Ltd.^{*1}, Japan Document Identification Center^{*2})
- C-23 Studies on ultraviolet absorption materials in epidermal secretion
*H. Ohki^{*1} and Y. Higashikawa^{*2} (Retired, National Research Institute of Police Science^{*1}, National Research Institute of Police Science^{*2})
- C-24 Examination of luminescent agents used as tracers for shadowing pursuits
*S. Kurata and T. Iyozumi (Criminal Investigation Laboratory, Metropolitan Police Department)
- C-25 Classification of phthalocyanine blue by Raman spectroscopy
*S. Saitoh (National Research Institute of Police Science)

Hall 2, Friday, November 10th

- 9:00-10:00 *Chairperson: M. Hata (Forensic Science Laboratory, Hokkaido Kushiro Area Police H.Q.)*
- C-26 The behavior of chlorine bleach splashed over clothing and other stuff
*I. Abe and M. Kudo (Criminal Investigation Laboratory, Metropolitan Police Department)
- C-27 Analysis of fabric softener using IAMS (Ion Attachment Mass Spectrometry)
*T. Hashimoto^{*1}, H. Maruyama, M. Inoue and Y. Shiokawa^{*2} (Forensic Science Laboratory, Hyogo Pref. Police H.Q.^{*1}, Canon ANELVA Technix Corporation^{*2})
- C-28 Analysis of surfactant in concrete block
*S. Sasaoka, N. Tachiiri, K. Usui, K. Saito and K. Miura (Forensic Science Laboratory, Miyagi Pref. Police H.Q.)
- C-29 Identification of adhesion components of adhesive tapes using insulation resistance
*K. Hibino^{*1}, T. Tsukame^{*2}, N. Tomita^{*3}, Y. Sasajima^{*4} and S. Satoh^{*1} (Identification Division, Gifu Pref. Police H.Q.^{*1}, Criminal Investigation Laboratory, Saitama Pref. Police H.Q.^{*2}, Identification Division, Saitama Pref. Police H.Q.^{*3}, Criminal Investigation Laboratory, Gifu Pref. Police H.Q.^{*4})
- C-30 Identification of rosin-glycerin ester and disproportionated rosin-glycerin ester by MALDI-TOF-MS
*Y. Kumooka (National Research Institute of Police Science)
- 10:10-10:58 *Chairperson: K. Ueda (Forensic Science Laboratory, Wakayama Pref. Police H.Q.)*

- C-31 Discrimination of blue paint chips by XRF using SPRing-8
*T. Mukai^{*1}, M. Kusatani^{*1}, S. Nakai^{*1}, S. Honda^{*1}, S. Watanabe^{*2}, N. Miyamoto^{*2}, Y. Nishiwaki^{*2}, O. Shimoda^{*2}, S. Muratsu^{*2}, M. Takatsu^{*2}, T. Nakanishi^{*2}, T. Ninomiya^{*3} and H. Nakazumi^{*4} (Forensic Science Laboratory, Nara Pref. Police H.Q.^{*1}, Forensic Science Laboratory, Hyogo Pref. Police H.Q.^{*2}, Japan Synchrotron Radiation Research Institute^{*3}, Graduate School of Engineering, Osaka Prefecture University^{*4})
- C-32 Analysis of light reflecting pigments in paints using EPMA
*R. Moriyoshi, H. Oosaki and K. Murakami (Forensic Science Laboratory, Hiroshima Pref. Police H.Q.)
- C-33 Identification of stainless steels (SUS)
*H. Iida, K. Akita, T. Sakai and M. Taniguchi (Forensic Science Laboratory, Hokkaido Police H.Q.)
- C-34 Analysis of primer discharge residues formed by exploding hand grenades using electron probe microanalyzer with wavelength dispersive spectrometer
*A. Tsujita, S. Kage, A. Hirashima, Y. Nishijima and J. Ryumoto (Forensic Science Laboratory, Fukuoka Pref. Police H.Q.)
- 11:08-11:56 *Chairperson: M. Kasamatsu (National Research Institute of Police Science)*
- C-35 Forensic identification of bullets by lead isotope ratios and trace elements analysis using LA-ICP-MS
*A. Tada^{*1}, A. Hokura^{*1}, I. Nakai^{*1} and K. Sasagawa^{*2} (Faculty of Science, Tokyo University of Science^{*1}, Forensic Science Laboratory, Ibaraki Pref. Police H.Q.^{*2})
- C-36 Forensic identification of sheet glass manufactured in Japan by LA-ICP-MS
*M. Ito^{*1}, I. Nakai^{*1}, A. Hokura^{*1} and Y. Nishiwaki^{*2} (Department of Appl. Chem., Faculty of Science, Tokyo Univ. of Science^{*1}, Forensic Science Laboratory, Hyogo Pref. Police H.Q.^{*2})
- C-37 Study on discrimination of heated glass fragments
*S. Watanabe^{*1}, T. Nakanishi^{*1}, M. Kasamatsu^{*2} and S. Suzuki^{*2} (Forensic Science Laboratory, Hyogo Pref. Police H.Q.^{*1}, National Research Institute of Police Science^{*2})
- C-38 Discrimination of black ceramics printed on automotive window glasses using high energy synchrotron radiation X-ray fluorescence spectrometry
*Y. Nishiwaki, M. Takatsu, N. Miyamoto, S. Watanabe, O. Shimoda, S. Muratsu and T. Nakanishi (Forensic Science Laboratory, Hyogo Pref. Police H.Q.)
- 12:45-13:45 *Chairperson: T. Mukai (Forensic Science Laboratory, Nara Pref. Police H.Q.)*
- C-39 Validity of simple examination on soil coarse particle fraction
*Y. Marumo^{*1} and R. Sugita^{*2} (Pharmaceutical Sciences, Nagasaki International Univ.^{*1}, National Research Institute of Police Science^{*2})
- C-40 Extraction of information for criminal investigation in small amount of soil samples() - Investigation of the effectiveness of some specific particles in identifying the surface geology of Miyazaki Prefecture -
*K. Naganuma^{*1}, T. Arikawa^{*1}, M. Iwamoto^{*1}, T. Udatsu^{*2} and Y. Nagatomo^{*2} (Forensic Science Laboratory, Miyazaki Pref. Police H.Q.^{*1}, Faculty of Agriculture, Miyazaki Univ.^{*2})
- C-41 Discrimination of soil samples of rivers in Gifu by means of multivariate analysis of X-ray fluorescence spectrometry data
*Y. Sasajima, K. Suenami, K. Sato, Y. Takekoshi and S. Kanno (Criminal Investigation Laboratory, Gifu Pref. Police H.Q.)
- C-42 Examination of biotite in granitic saprolite for forensic discrimination of soil
*R. Sugita and S. Suzuki (National Research Institute of Police Science)
- C-43 Microbial genotyping of soil samples for forensic discrimination
*H. Kikkawa, S. Sugita, Y. Fujinami, J. Yasuda and S. Suzuki (National Research Institute of Police Science)

Forensic Engineering (D)

Speech and Acoustics

Hall 3, Thursday, November 9th

- 9:00-9:24 *Chairperson: T. Suwa (Criminal Investigation Laboratory, Saitama Pref. Police H.Q.)*
- D-1 The relation between speaking style and fundamental frequency
*T. Osanai^{*1}, K. Ozeki^{*2}, T. Kamada^{*1}, H. Makinae^{*1} and M. Tanimoto^{*1} (National Research Institute of Police Science^{*1}, The University of Electro-Communications^{*2})
- D-2 Preliminary analysis of bone-conducted voice recorded with a vibration sensor
*H. Makinae, T. Osanai, T. Kamada and M. Tanimoto (National Research Institute of Police Science)

Explosion

Hall 3, Thursday, November 9th

9:30-10:18 *Chairperson: T. Harama (Forensic Science Laboratory, Shizuoka Pref. Police H.Q.)*

- D-3 Visualization of blast-wave propagation by using background
*M. Kudo and I. Abe (Criminal Investigation Laboratory, Metropolitan Police Department)
- D-4 Detonation velocity of ammonium nitrate and magnesium mixture
*H. Arai and J. Nakamura (National Research Institute of Police Science)
- D-5 Analysis of organic peroxides and explosives by LC/MS/MS
*M. Kazama (Criminal Investigation Laboratory, Metropolitan Police Department)
- D-6 Detection of trace explosives using portable explosives detectors
*J. Nakamura (National Research Institute of Police Science)

Fire Investigation

Hall 3, Thursday, November 9th

10:24-11:00 *Chairperson: J. Nakamura (National Research Institute of Police Science)*

- D-7 Experimental study on spontaneous ignition of plastic-waste
*O. Sugawa^{*1}, T. Sato^{*1} and K. Kamiya^{*2} (Tokyo University of Science, Suwa^{*1}, Japan Specialist in Law Engineering, Corporation^{*2})
- D-8 Fire debris analysis using fragrance & flavor analyzer
*K. Kamiya^{*1} and O. Sugawa^{*2} (Japan Specialist in Law Engineering, Corporation^{*1}, Tokyo University of Science, Suwa^{*2})
- D-9 Development of a searching system for hazardous materials
*T. Harama, T. Goto and Y. Matsuyama (Forensic Science Laboratory, Shizuoka Pref. Police H.Q.)

14:10-14:58 *Chairperson: M. Kazama (Criminal Investigation Laboratory, Metropolitan Police Department)*

- D-10 A study of arc beads on electric wires using a scanning electron microscope
*M. Miura and M. Fukuma (Criminal Investigation Laboratory, Shimane Pref. Police H.Q.)
- D-11 Inside observation of beaded wires using synchrotron X-ray CT method
*N. Miyamoto^{*1}, K. Shinomiya^{*1}, S. Watanabe^{*1} and H. Takano^{*2} (Forensic Science Laboratory, Hyogo Pref. Police H.Q.^{*1}, Faculty of Science, University of Hyogo^{*2})
- D-12 Time variation of pressure and diffusion of gasoline vapor
*T. Ogura^{*1}, S. Hazama^{*2}, Y. Itoi^{*3}, A. Ueda^{*4}, Y. Kida^{*5}, H. Kageyama^{*6}, H. Kato^{*7}, K. Sato^{*8}, M. Sakurai^{*9}, Y. Hagimoto^{*10}, N. Watanabe^{*10}, K. Okamoto^{*10} and T. Chigira^{*10} (Forensic Science Laboratory, Mie Pref. Police H.Q.^{*1}, Forensic Science Laboratory, Hokkaido Police H.Q.^{*2}, Criminal Investigation Laboratory, Saitama Pref. Police H.Q.^{*3}, Science Criminal Investigation Laboratory, Kanagawa Pref. Police H.Q.^{*4}, Forensic Science Laboratory, Shiga Pref. Police H.Q.^{*5}, Forensic Science Laboratory, Osaka Pref. Police H.Q.^{*6}, Forensic Science Laboratory, Tottori Pref. Police H.Q.^{*7}, Criminal Investigation Laboratory, Oita Pref. Police H.Q.^{*8}, Forensic Science Laboratory, Miyazaki Pref. Police H.Q.^{*9}, National Research Institute of Police Science^{*10})
- D-13 Properties of ignition and combustion of gasoline vapor
*K. Sato^{*1}, S. Hazama^{*2}, Y. Itoi^{*3}, A. Ueda^{*4}, T. Ogura^{*5}, Y. Kida^{*6}, H. Kageyama^{*7}, H. Kato^{*8}, M. Sakurai^{*9}, Y. Hagimoto^{*10}, N. Watanabe^{*10}, K. Okamoto^{*10} and T. Chigira^{*10} (Criminal Investigation Laboratory, Oita Pref. Police H.Q.^{*1}, Forensic Science Laboratory, Hokkaido Pref. Police H.Q.^{*2}, Criminal Investigation Laboratory, Saitama Pref. Police H.Q.^{*3}, Science Criminal Investigation Laboratory, Kanagawa Pref. Police H.Q.^{*4}, Forensic Science Laboratory, Mie Pref. Police H.Q.^{*5}, Forensic Science Laboratory, Shiga Pref. Police H.Q.^{*6}, Forensic Science Laboratory, Osaka Pref. Police H.Q.^{*7}, Forensic Science Laboratory, Tottori Pref. Police H.Q.^{*8}, Forensic Science Laboratory, Miyazaki Pref. Police H.Q.^{*9}, National Research Institute of Police Science^{*10})

15:10-15:58 *Chairperson: M. Miura (Criminal Investigation Laboratory, Shimane Pref. Police H.Q.)*

- D-14 Flame propagation in fire of a car with plastic fuel tank
*T. Suwa and T. Hirose (Criminal Investigation Laboratory, Saitama Pref. Police H.Q.)
- D-15 Properties of burning car with resin fuel tank
*Y. Iwatsu and Y. Fujita (Criminal Investigation Laboratory, Oita Pref. Police H.Q.)
- D-16 Influence of door window opening on combustion in automotive cabins (part2)
*T. Chigira^{*1}, H. Sato^{*2}, M. Suwa^{*3}, K. Okamoto^{*1}, N. Watanabe^{*1} and Y. Hagimoto^{*1} (National Research Institute of Police Science^{*1}, Forensic Science Laboratory, Chiba Pref. Police H.Q.^{*2}, Criminal Investigation Laboratory, Saitama Pref. Police H.Q.^{*3})
- D-17 Burning behavior and burning characteristics of automotive tires
*K. Okamoto^{*1}, S. Hazama^{*2}, Y. Itoi^{*3}, A. Ueda^{*4}, T. Ogura^{*5}, Y. Kida^{*6}, H. Kageyama^{*7}, H. Kato^{*8}, K. Satoh^{*9}, M. Sakurai^{*10}, T. Chigira^{*1}, N. Watanabe^{*1} and Y. Hagimoto^{*1} (National Research Institute of Police Science^{*1}, Forensic Science Laboratory, Hokkaido Police H.Q.^{*2}, Criminal Investigation Laboratory, Saitama Pref. Police H.Q.^{*3}, Science Criminal Investigation Laboratory, Kanagawa Pref. Police H.Q.^{*4}, Forensic Science Laboratory, Mie Pref. Police H.Q.^{*5}, Forensic Science Laboratory, Shiga Pref. Police H.Q.^{*6}, Forensic Science Laboratory, Osaka Pref. Police H.Q.^{*7},

Forensic Science Crime Laboratory, Tottori Pref. Police H.Q.^{*8}, Forensic Science Laboratory, Oita Pref. Police H.Q.^{*9}, Forensic Science Laboratory, Miyazaki Pref. Police H.Q.^{*10})

16:12-17:00 *Chairperson: T. Ogura (Forensic Science Laboratory, Mie Pref. Police H.Q.)*

- D-18 The melting characteristics of a fuse in TV fire
*Young-Jin Cho, Nam-Kyu Park, Byung-Sun Moon, Jong-Taek Park, Young-Kuk Park and Jung-Woo Nam (National Institute of Scientific Investigation in Korea)
- D-19 On the destruction behavior of electronic devices by impulse voltage
*H. Yamamoto^{*1}, R. Hanaoka^{*2} and S. Takata^{*2} (Forensic Science Laboratory, Ishikawa Pref. Police H.Q.^{*1}, Kanazawa Institute of Technology^{*2})
- D-20 Fire hazard of a bundled cord
*M. Hiramatsu, T. Iwashita, Y. Yamamoto and J. Ohtake (Forensic Science Laboratory, Yamanashi Pref. Police H.Q.)
- D-21 Ignition of combustible materials by short-circuit sparks; Ejection of incandescent particles
*Y. Hagimoto, N. Watanabe, K. Okamoto and T. Chigira (National Research Institute of Police Science)

Engineering

Hall 4, Thursday, November 9th

9:00-9:48 *Chairperson: S. Saitoh (National Research Institute of Police Science)*

- D-22 Fluorescence of fingerprints on various samples with a tunable laser
*N. Akiba, N. Saitoh and K. Kuroki (National Research Institute of Police Science)
- D-23 Application of positron annihilation spectroscopy to forensic science (Detection of Heat Records of Metals)
*K. Kuroki, K. Kurosawa, N. Akiba and N. Igarashi (National Research Institute of Police Science)
- D-24 Authentication scheme for papers using translated infrared ray
*M. Yamakoshi^{*1}, J. Tanaka^{*1}, M. Furuie^{*1} and T. Matsumoto^{*2} (Research Institute, National Printing Bureau^{*1}, Graduate School of Environment and Information Sciences, Yokohama National Univ.^{*2})
- D-25 Visualization of latent fingerprints and ultra-violet fluorescence spectra of color toner and color ink
N. Saitoh, N. Akiba and K. Kuroki (National Research Institute of Police Science)

Image Processing

Hall 4, Thursday, November 9th

10:00-11:00 *Chairperson: N. Saitoh (National Research Institute of Police Science)*

- D-26 A study of the method for discriminating car license plate number from low resolution images
*Y. Kida^{*1}, A. Yoshikawa^{*2}, K. Fujita^{*3} and A. Inagaki^{*1} (Forensic Science Laboratory, Shiga Pref. Police H.Q.^{*1}, Konan Univ.^{*2}, Ryukoku Univ.^{*3})
- D-27 Image enhancement of motion-blurred JPEG image using edge orientation
*K. Fujita^{*1} and A. Inagaki^{*2} (Science and Eng., Ryukoku Univ.^{*1}, Forensic Science Laboratory, Shiga Pref. Police H.Q.^{*2})
- D-28 Improvement of classification rules for low-resolution license plate numbers (Part 3)
*A. Yoshikawa^{*1}, Y. Kida^{*2}, K. Fujita^{*3} and A. Inagaki^{*2} (Konan Univ.^{*1}, Forensic Science Laboratory, Shiga Pref. Police H.Q.^{*2}, Ryukoku Univ.^{*3})
- D-29 Fundamental study on camera identification using noise texture analysis
*K. Kurosawa, K. Kuroki, N. Akiba and N. Igarashi (National Research Institute of Police Science)
- D-30 Detection of traces of object concealing in tampered images
*N. Igarashi, N. Akiba, K. Kurosawa and K. Kuroki (National Research Institute of Police Science)

Firearms and Toolmarks

Hall 3, Friday, November 10th

9:00-9:48 *Chairperson: T. Fuwa (Criminal Investigation Laboratory, Gifu Pref. Police H.Q.)*

- D-31 Study of tool mark identification using 3D-data
T. Harama^{*1}, *K. Kurata^{*1}, T. Nishigaya^{*1} and T. Kawasaki^{*2} (Forensic Science Laboratory, Shizuoka Pref. Police H.Q.^{*1}, Keyence Co., Ltd^{*2})
- D-32 Classification of impressed markings on primers of cartridge cases fired from caliber 0.25 semi-automatic pistols
* T. Uchiyama (National Research Institute of Police Science)
- D-33 Dimensional changes on deformed bullets (3)
*M. Mizumoto (Forensic Science Laboratory, Kumamoto Pref. Police H.Q.)

- D-34 Variation of bullet velocity through laminated glass for automobile
* N. Maeta, H. Kato (Forensic Science Laboratory, Tottori Pref. Police H.Q.)

10:00-10:48 *Chairperson: N. Maeta (Forensic Science Laboratory, Tottori Pref. Police H.Q.)*

- D-35 Failure state of glass shot by gun and air soft gun
*K. Shibasaki and K. Shimamura (Forensic Science Laboratory, Chiba Pref. Police H.Q.)
- D-36 Penetration of plastic BB into paper goods and ballistic gelatin
*M. Nagai (National Research Institute of Police Science)
- D-37 The influence a bullet shot from toy gun affects human body
*N. Miyamoto, S. Kotani (Forensic Science Laboratory, Wakayama Pref. Police H.Q.)
- D-38 Power evaluation of air gun by use of CO₂ container with pressure regulation gauge
*Y. Itoi and T. Hirose (Criminal Investigation Laboratory, Saitama Pref. Police H.Q.)

11:00-11:36 *Chairperson: K. Shibasaki (Forensic Science Laboratory, Chiba Pref. Police H.Q.)*

- D-39 Effect of pressure on motion of toy gun
*T. Fuwa, S. Takeuchi and K. Nakano (Criminal Investigation Laboratory, Gifu Pref. Police H.Q.)
- D-40 Retardation of spherical projectiles
*K. Matsunaga and N. Miyamoto (Forensic Science Laboratory, Hyogo Pref. Police H.Q.)
- D-41 An attempt of energy estimation of projectile from illegal remodeling air gun
*S. Kamihirata, K. Taniguchi and Y. Nishida (Forensic Science Laboratory, Nara Pref. Police H.Q.)

Mechanical Engineering

Hall 3, Friday, November 10th

12:45-13:21 *Chairperson: Z. Taira (Forensic Science Laboratory, Okinawa Pref. Police H.Q.)*

- D-42 Influence of shape of tip of the blade on the penetrating number of sheets of note
*Y. Itoh^{*1} and K. Mogami^{*2} (National Institute for Longevity Sciences^{*1}, National Research Institute of Police Science^{*2})
- D-43 A study of measuring the impulsive force with a load cell (3)
*T. Kimura and M. Matsui (Criminal Investigation Laboratory, Aichi Pref. Police H.Q.)
- D-44 Dependence of maximum stress to tensile strength ratio on stress triaxiality for high strength steel
*M. Ohashi (National Research Institute of Police Science)

Traffic Accidents

Hall 3, Friday, November 10th

13:30-14:18 *Chairperson: S. Yamazaki (Japan Automobile Research Institute)*

- D-45 Discrimination of automobile-bulb-filament oxidation time -Just collision or after collision-
*H. Kamita and K. Nakano (Forensic Science Laboratory, Osaka Pref. Police H.Q.)
- D-46 Comparison on the mechanical property in lighting and non-lighting of automobile lamp filament
*H. Sekimori (Forensic Science Laboratory, Nagano Pref. Police H.Q.)
- D-47 A study on marks contacted induction rotor of motorcycle speedometer
*M. Sakurai, Y. Kuchimoto and M. Ohno (Forensic Science Laboratory, Miyazaki Pref. Police H.Q.)
- D-48 What cases are tread-pattern-marks made on a road?
*K. Akita, N. Abiko, H. Fukushima, K. Suzuki, K. Nishidate and R. Uchida (Forensic Science Laboratory, Hokkaido Pref. Police H.Q.)

14:30-15:30 *Chairperson: H. Kamita (Forensic Science Laboratory, Osaka Pref. Police H.Q.)*

- D-49 A study of "tack in" that cause traffic accidents in curves
*Y. Motomiya (Forensic Science Laboratory, Niigata Pref. Police H.Q.)
- D-50 The effect of antilock brake system on the snow-covered road
*T. Fukawa, J. Morishita and E. Teratsuji (Forensic Science Laboratory, Hyogo Pref. Police H.Q.)
- D-51 Experimental research on acceleration performance at motor cycle
*K. Taneda (Automobile Traffic Accident Analysis Science Laboratory)
- D-52 Energy absorption diagram based on body structures
*R. Oga (National Research Institute of Police Science)
- D-53 A study on collision speed analysis of a two-wheeled vehicle accident
*S. Yamazaki^{*1}, M. Kubota^{*1} and K. Yamada^{*2} (Japan Automobile Research Institute^{*1}, The Metropolitan Police Department^{*2})

Crime Scene Investigation (E)

Hall 4, Thursday, November 9th

- 14:10-14:58 *Chairperson: R. Wakabayashi (Identification Division, Nara Pref. Police H.Q.)*
- E-1 Development of Trace-Sheet to lift footprints clearly on the rough surfaces
*T. Furuta, T. Hayakawa and M. Sato (Identification Division, Gifu Pref. Police H.Q.)
- E-2 How to extract the bloodstained footmarks (Transcription to acrylic resin sheets)
*H. Nagai (Identification Division, Hyogo Pref. Police H.Q.)
- E-3 A study of a production characteristic to occur at a footwear bottom
*A. Suemoto and T. Nishida (Identification Division, Fukui Pref. Police H.Q.)
- E-4 A study of wear patterns occurring on the footwear soles
*T. Iwata^{*1}, Y. Yamamoto^{*2} and K. Watanabe^{*2} (Forensic Science Laboratory, Tokushima Pref. Police H.Q.^{*1}, Identification Division, Tokushima Pref. Police H.Q.^{*2})
- 15:10-15:58 *Chairperson: H. Mitani (Identification Division, National Police Agency)*
- E-5 Identification of human figure image by selected wave length detection under low illumination level
*T. Shirase and H. Sugiyama (Identification Division, Metropolitan Police Department)
- E-6 A study of stature measurement
*A. Hirashima, H. Takeshita, K. Toyama, Y. Nishijima and A. Miyamoto (Forensic Science Laboratory, Fukuoka Pref. Police H.Q.)
- E-7 Development of latent fingerprint on adhesive tapes - Relation between the appearance of latent fingerprint and adhesion components -
*T. Tomita^{*1}, K. Hibino^{*2}, T. Tsukame^{*3} and Y. Sasajima^{*4} (Identification Division, Saitama Pref. Police H.Q.^{*1}, Identification Division, Gifu Police H.Q.^{*2}, Criminal Investigation Laboratory, Saitama Pref. Police H.Q.^{*3}, Criminal Investigation Laboratory, Gifu Pref. Police H.Q.^{*4})
- E-8 New fluorescence detection method for latent fingerprint using pyrolysis vapor fuming of modified polycyanoacrylate
*O. Shimoda^{*1}, S. Watanabe^{*1}, K. Shinomiya^{*1}, A. Miyawaki^{*1}, T. Kotera^{*1}, M. Takatsu^{*1}, K. Fukuda^{*2}, T. Tsukame^{*3} and M. Ouchi^{*4} (Forensic Science Laboratory, Hyogo Pref. Police H.Q.^{*1}, Identification Division, Hyogo Pref. Police H.Q.^{*2}, Forensic Science Laboratory, Saitama Pref. Police H.Q.^{*3}, Graduate School of Engineering, Univ. of Hyogo^{*4})
- 16:12-17:00 *Chairperson: H. Kawaguchi (Identification Division, Fukushima Pref. Police H.Q.)*
- E-9 Comparison study of plastic bags for collecting and preserving arson evidence
*T. Mikuma, H. Watanabe and T. Kaneko (Forensic Science Laboratory, Chiba Pref. Police H.Q.)
- E-10 Evaluation of plastic bags for preservation of corpse
*H. Nojima, H. Watanabe, M. Sato, R. Suzuki, Y. Suzuki and T. Kaneko (Forensic Science Laboratory, Chiba Pref. Police H.Q.)
- E-11 Cigarette brand identification by visual inspection
A. Kuji^{*1}, *T. Sasaki^{*1}, Y. Oyama^{*2} and N. Yamagata^{*1} (Forensic Science Laboratory, Hokkaido Hakodate Area Police H.Q.^{*1}, Identification Division, Hokkaido Hakodate Area Police H.Q.^{*2})
- E-12 How to use the dental findings for open investigation of bodies effectively - by a questionnaire -
*Y. Hanaoka^{*1}, M. Kajiwara^{*2}, T. Tsuzuki^{*3}, N. Takahashi^{*4}, K. Minaguchi^{*1} and Y. Sato^{*2} (Forensic Odontology, Tokyo Dental College^{*1}, Legal Medicine, Kyorin Univ.^{*2}, Legal Medicine of Dentistry, Nippon Dent. Univ.^{*3}, Forensic Science Laboratory, Chiba Pref. Police H.Q.^{*4})

Forensic Psychology (F)

Hall 4, Friday, November 10th

- 9:00-10:12 *Chairperson: N. Fukada (Science Investigation Laboratory, Fukushima Pref. Police H.Q.)*
- F-1 Modus operandi of serial arson cases : From the perspective of engineering (2)
*Y. Kuchimoto, T. Hirao, M. Sakurai and M. Ohno (Forensic Science Laboratory, Miyazaki Pref. Police H.Q.)
- F-2 A study of snatch under the influence of prefecture's quality
*T. Kasuya^{*1}, J. Fukumoto^{*2} and H. Tamagawa^{*3} (Forensic Science Laboratory, Metropolitan Police Department^{*1}, Forensic Science Laboratory, Yamaguchi Pref.^{*2}, Graduate School of Urban Environmental Sciences, Tokyo Metropolitan Univ.^{*3})
- F-3 An estimation of the anchor point in snatch cases: Development of the vector drawing method
*H. Kawamura and Y. Yokoi (Criminal Investigation Laboratory, Aichi Pref. Police H.Q.)
- F-4 The size of the buffer zone in serial sexual offences
*Y. Yokoi (Criminal Investigation Laboratory, Aichi Pref. Police H.Q.)
- F-5 Kidnapping for ransom by single offenders
*M. Hoshino, K. Yokota, G. Fujita, K. Watanabe, T. Wachi and A. Sato (National Research Institute of Police Science)

- F-6 Bayesian network modeling for criminal profiling of sex offences and prediction of next crime
*W. Zaitzu (Forensic Science Laboratory, Toyama Pref. Police H.Q.)

10:30-11:30 *Chairperson: W. Oue (Forensic Science Laboratory, Saga Pref. Police H.Q.)*

- F-7 A study on the individual difference in distinctive physiological responses by the use of the digital polygraph
*H. Izumikawa, T. Okuno, A. Ito and T. Ueno (Forensic Science Laboratory, Osaka Pref. Police H.Q.)
- F-8 Application of the piezo respiration sensor to the polygraph test
*T. Kosugi^{*1}, R. Kuga^{*2}, S. Mimura^{*2} and M. Terakado^{*3} (Forensic Science Laboratory, Metropolitan Police Department^{*1}, College of Humanities and Sciences, Nihon Univ.^{*2}, Seisen Jogakuin College^{*3})
- F-9 Heart rate in detection of deception: The effects of question items
*T. Suzuki (Science Criminal Investigation Laboratory, Kanagawa Pref. Police H.Q.)
- F-10 The cardiac parasympathetic activity in polygraph tests
*I. Matsuda^{*1}, A. Hirota^{*1}, T. Ogawa^{*1} and N. Takasawa^{*2} (National Research Institute of Police Science^{*1}, Department of Sociology and Human Studies, Edogawa University^{*2})
- F-11 Eye-blink and eye-movement in the polygraph test: Listed visual presentation of stimuli
*K. Sugawa and M. Ishikawa (Forensic Science Laboratory, Ishikawa Pref. Police H.Q.)

Questioned Documents (G)

Hall 4, Friday, November 10th

12:45-14:09 *Chairperson: K. Tabata (Science Investigation Laboratory, Aomori Pref. Police H.Q.)*

- G-1 Identification of ready-made stamp - Different parts of ready-made stamp -
*S. Tanaka^{*1}, M. Ueda^{*1}, T. Kamitani^{*2} and Y. Marutani^{*2} (Forensic Science Laboratory, Kyoto Pref. Police H.Q.^{*1}, Faculty of Engineering, Osaka Sangyo University^{*2})
- G-2 Analysis of counterfeit 500 Yen coins made of solder
*H. Satoh, T. Ohuchi and M. Hida (Criminal Investigation Laboratory, Aichi Pref. Police H.Q.)
- G-3 Simple and non-destructive analysis of coins using acoustic characteristics (2): Examination of new-type 500 yen coins using power spectra
*M. Suzuki (Criminal Investigation Laboratory, Tokyo Metropolitan Police Department)
- G-4 Experiment on construction of Font Identification System
*T. Kuramochi (Scientific Crime Laboratory, Tottori Pref. Police H.Q.)
- G-5 Discrimination of documents produced by copiers and printers using an Electrostatic Detection Apparatus
*Y. Ohori (Forensic Science Laboratory, Miyagi Pref. Police H.Q.)
- G-6 Case reports of identification of ink jet printers
*M. Tsukahara and M. Fukui (Forensic Science Laboratory, Hokkaido Pref. Police H.Q.)
- G-7 Difference of luminescent property of ink on paper and on glass
*S. Sugawara, T. Koyama and Y. Seki (National Research Institute of Police Science)

14:20-15:20 *Chairperson: K. Katayama (Criminal Investigation Laboratory, Okayama Pref. Police H.Q.)*

- G-8 A study of order of making strokes on writing artificial characters
*H. Sakakibara (Criminal Investigation Laboratory, Aichi Pref. Police H.Q.)
- G-9 The constant stroke order of handwritten Chinese characters (2) - Disguised handwriting using a ruler -
*M. Fujii^{*1}, K. Oshima^{*2}, N. Yokota^{*3} and T. Katoh^{*1} (Criminal Investigation Laboratory, Gifu Pref. Police H.Q.^{*1}, Criminal Investigation Laboratory, Okayama Pref. Police H.Q.^{*2}, Criminal Investigation Laboratory, Mie Pref. Police H.Q.^{*3})
- G-10 Analyzing disguised document: From the perspective of gender stereotype
*N. Hasegawa (Criminal Investigation Laboratory, Aichi Pref. Police H.Q.)
- G-11 Discrimination of the handwriting change with age from childhood to early adult
*T. Izawa, J. Takada and M. Nakayama (Forensic Science Laboratory, Shizuoka Pref. Police H.Q.)
- G-12 Investigation of handwriting by left hand
*T. Kamitani^{*1}, M. Ueda^{*2}, S. Tanaka^{*2} and Y. Marutani^{*1} (Faculty of Engineering, Osaka Sangyo University^{*1}, Forensic Science Laboratory, Kyoto Pref. Police H.Q.^{*2})

15:30-16:54 *Chairperson: M. Kondo (Forensic Science Laboratory, Niigata Pref. Police H.Q.)*

- G-13 Introduction of the measurement system for pressure information during handwriting movements - QDEWARE + FSR + Force Sensor Pen + Security Scanner -
*T. Furukawa (Forensic Science Laboratory, Ibaraki Pref. Police H.Q.)
- G-14 A study on the sampling of reference handwriting with a digital pen (I) - Development of handwritten character analysis system -
*M. Shimoyama^{*1}, K. Kobayashi^{*1} and J. Nakahara^{*2} (Forensic Science Laboratory, Hyogo Pref. Police H.Q.^{*1}, System Division Digital Pen Sales Department Pentel Co., Ltd.^{*2})
- G-15 A study on the sampling of reference handwriting with a digital pen (II) - Examination of sampling of handwritten

character -

*K. Kobayashi^{*1}, M. Shimoyama^{*1} and J. Nakahara^{*2} (Forensic Science Laboratory, Hyogo Pref. Police H.Q.^{*1}, System Division Digital Pen Sales Department Pentel Co., Ltd.^{*2})

G-16 Development of character clipping system for questioned document identification

*Y. Taguchi, M. Okubo and M. Shimizu (Forensic Science Laboratory, Fukuoka Pref. Police H.Q.)

G-17 Comparison of the handwriting using the distance between the feature vectors

*M. Koyama (Science Criminal Investigation Laboratory, Kanagawa Pref. Police H.Q.)

G-18 Writer identification based on character geometry

*K. Tokiwa^{*1} and K. Fukue^{*2} (Forensic Science Laboratory, M.P.D.^{*1}, Tokai Univ. Research and Information Center^{*2})

G-19 Handwriting identification based on the quantification of observed characteristics

*Y. Seki, S. Sugawara, T. Koyama and Y. Akao (National Research Institute of Police Science)