

17th Annual Meeting of Japanese Association of Forensic Science and Technology

17 – 18, November 2011

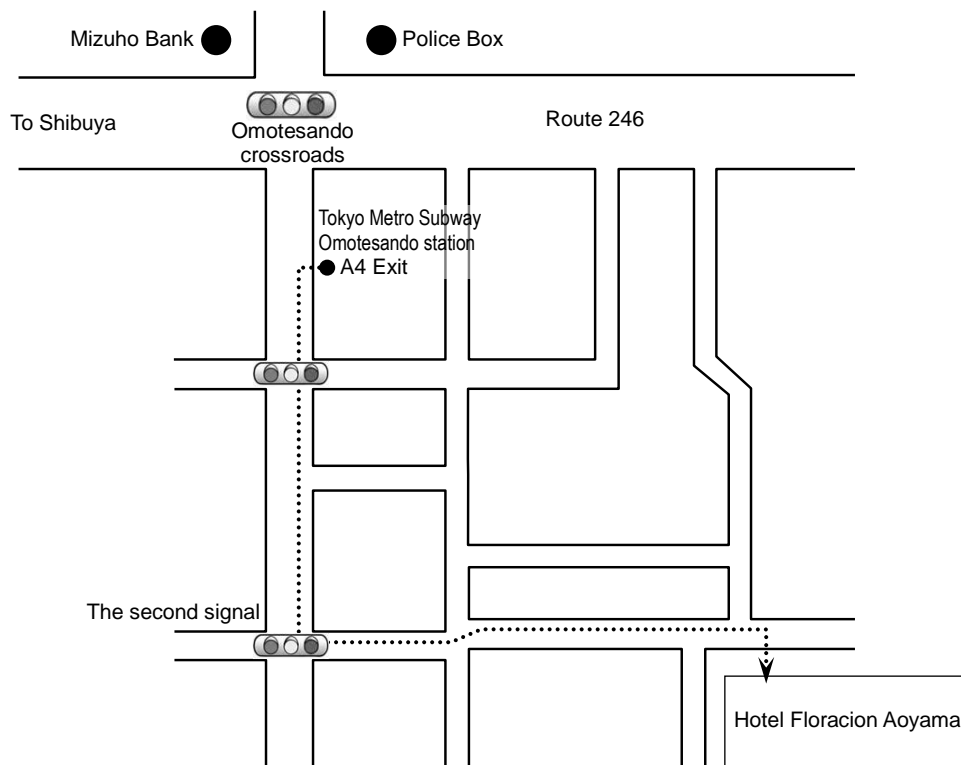
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Access map



Six minutes' walk from Omotesando station of Tokyo Metro Subway (Ginza line, Hanzomon line and Chiyoda line).

Go up to the ground from A4 Exit, and go straight forward to the left way (about 200 m).

Turn left at the second signal, go more 200 m, the hotel is at the right.

The 17th Meeting Chair

Kazuichi Hayakawa

Schedule of the 17th JAFST Annual Meeting

Thursday 17, November

	Hall I 1st floor, Fuji	Hall II 1st floor, Hagoromo	Hall III 2nd floor, Fuyo-higashi	Hall IV 2nd floor, Fuyo-nishi	3rd floor, Kujaku
08:50	Opening Ceremony (08:50 – 08:55, Hall I)				
09:00	Forensic Biology 09:00 – 09:44 A-01 – 04 09:54 – 10:38 A-05 – 08	Forensic Toxicology 09:00 – 09:33 B-01 – 03 09:38 – 10:11 B-04 – 06 10:16 – 10:49 B-07 – 09	Forensic Engineering <i>Explosion</i> 09:00 – 09:22 D-01 – 02 <i>Fire Investigation</i> 09:30 – 10:03 D-03 – 05 10:11 – 10:55 D-06 – 09	Crime Scene Identification 09:00 – 09:44 G-01 – 04 09:54 – 10:27 G-05 – 07	
11:10	Special Lecture (11:10 – 12:10, Hall I)				
12:10	Luncheon Seminar I	Lunchtime			Instruments Exhibition
13:00	General Meeting (13:00 – 13:25, Hall I)				
13:30	Forensic Biology 13:30 – 14:14 A-09 – 12 14:24 – 15:08 A-13 – 16 15:18 – 15:51 A-17 – 19	Forensic Toxicology 13:30 – 14:03 B-10 – 12 14:10 – 14:43 B-13 – 15 14:50 – 15:34 B-16 – 19 15:45 – 16:18 B-20 – 22	Forensic Engineering 13:30 – 14:25 D-10 – 14 14:32 – 15:27 D-15 – 19 <i>Firearms</i> 15:34 – 16:18 D-20 – 23 16:25 – 17:09 D-24 – 27 <i>Mechanical Engineering</i> 17:16 – 18:22 D-28 – 33	Forensic Psychology 13:30 – 14:14 F-01 – 04 14:24 – 14:57 F-05 – 07 15:07 – 15:40 F-08 – 10	11:00 17:00
18:30	Banquet (18:30 – 20:15, Hall I)				

Friday 18, November

	Hall I 1st floor, Fuji	Hall II 1st floor, Hagoromo	Hall III 2nd floor, Fuyo-higashi	Hall IV 2nd floor, Fuyo-nishi	3rd floor, Kujaku
08:30	Symposium (08:30 – 10:30, Hall I)				
10:40	Forensic Biology 10:45 – 11:29 A-20 – 23	Forensic Chemistry 10:40 – 11:35 C-08 – 12	Forensic Engineering <i>Traffic Accidents</i> 10:40 – 11:13 D-34 – 36 11:21 – 11:54 D-37 – 39	Forensic Documents 10:40 – 11:13 E-01 – 03 11:23 – 11:56 E-04 – 06	Instruments Exhibition 09:00 14:00
12:00	Luncheon Seminar II	Lunchtime			
12:40	Forensic Biology 12:40 – 13:24 A-24 – 27	Forensic Chemistry 12:40 – 13:35 C-13 – 17 13:45 – 14:18 C-18 – 20 14:25 – 14:58 C-21 – 23 15:05 – 15:49 C-24 – 27 16:00 – 16:44 C-28 – 31	Forensic Engineering 12:40 – 13:24 D-40 – 43 13:31 – 14:04 D-44 – 46 <i>Image Processing, etc.</i> 14:11 – 15:06 D-47 – 51 15:13 – 15:57 D-52 – 55 <i>Speech and Acoustics</i> 16:04 – 16:26 D-56 – 57 16:26 – 16:59 D-58 – 60	Forensic Documents 13:00 – 13:55 E-07 – 11 14:05 – 14:49 E-12 – 15 15:00 – 15:55 E-16 – 20	
17:00					

Each presenter has 8 minutes for oral presentation and 3 minutes for discussion.

Special Lecture

Thursday 17 November 11:10 – 12:10 Hall I (Fuji)

Chairperson: K. Hayakawa (Kanazawa Univ.)

Genetic polymorphisms, regulation mechanisms and drug interactions of drug metabolism-relating enzymes

T. Yokoi (Professor, Drug Metabolism and Toxicology, Faculty of Pharmaceutical Sciences, Kanazawa University)

Symposium

Friday 18 November 08:30 – 10:30 Hall I (Fuji)

Organizer: H. Fukushima (National Research Inst. of Police Sci.)

Mass earthquake disaster and forensic science

Explanation of Aim

Keynote Lectures

- I. Inspection and identification of victims in mass disasters
H. Fukushima (National Research Inst. of Police Sci.)
- II. Problem concerning the identification from dental findings actualized by the Great East Japan Earthquake
T. Komuro (Dept. of Legal Med., Nihon Univ. Sch. of Dentistry)

Symposiasts' Presentations

The role of forensic science laboratories in Disaster Victim Identification (DVI) after the Great East Japan Earthquake

- S-1 A report about DVI in Iwate Prefecture
H. Biwasaka (Forensic Sci. Lab., Iwate Pref. Police H.Q.)
- S-2 A report about DVI in Miyagi Prefecture
K. Ujiie (Forensic Sci. Lab., Miyagi Pref. Police H.Q.)
- S-3 A report about DVI in Fukushima Prefecture
T. Katou (Scientific Invest. Lab., Fukushima Pref. Police H.Q.)

General Discussion

Luncheon Seminars

Thursday 17 November 12:15 – 12:45 Hall I (Fuji)

- I. Application of forensic analysis by ultra-fast triple quadrupole LC-MS/MS
T. Minohata (Application Group, MS Business Unit, Life Science Business Department, Analytical & Measuring Instruments Division, SHIMADZU Corporation)

Friday 18 November 12:00 – 12:30 Hall I (Fuji)

- II. Enabling direct PCR amplification of non-FTA[®] reference samples
Y. Shionoya (Technical Support, Lifetechnologies Japan Ltd.)

Oral Presentations

Forensic Biology (A)

Thursday 17 November Hall I (Fuji)

09:00 – 09:44

Chairperson: *H. Biwasaka (Forensic Sci. Lab., Iwate Pref. Police H.Q.)*

A-01 Heat-related changes on compact bones

○K. Imaizumi, B. Wada, Y. Ogawa (National Research Inst. of Police Sci.)

A-02 Personal identification using frontal sinus patterns – case report –

○K. Hayashida, M. Atsuchi, K. Hiroshige (Forensic Sci. Lab., Fukuoka Pref. Police H.Q.)

A-03 A study of method for observing histological structure of cortical bone

○K. Yamamoto, K. Yamazaki (Scientific Crime Lab., Kanagawa Pref. Police H.Q.)

A-04 Development of software for assisting facial image analyzing (3)

○Y. Iwata (Forensic Sci. Lab., Saga Pref. Police H.Q.)

09:54 – 10:38

Chairperson: *K. Imaizumi (National Research Inst. of Police Sci.)*

A-05 Anthropometry on the 3D digital face data (II)

○Y. Ogawa, B. Wada, K. Imaizumi, S. Miyasaka, M. Yoshino (National Research Inst. of Police Sci.)

A-06 Study of 3D facial identification and 3D superimpose using transportable 3D scanner

○T. Egawa^{*1}, K. Yayama^{*1,2}, M. Ishii^{*3}, H. Abiru^{*4}, K. Tamaki^{*4} (Forensic Sci. Lab., Kyoto Pref. Police H.Q.^{*1}, Kansai Medical University Neurosurgery^{*2}, Forensic Sci. Lab., Chiba Pref. Police H.Q.^{*3}, Kyoto University^{*4})

A-07 Establishment of a three-dimensional bone shape database for animals aiming species identification of bone specimens

○B. Wada^{*1}, M. Ikeda^{*2}, T. Kurokawa^{*2}, Y. Ogawa^{*1}, K. Shimizu^{*3}, K. Imaizumi^{*1} (National Research Inst. of Police Sci.^{*1}, Forensic Sci. Lab., Osaka Pref. Police H.Q.^{*2}, Forensic Sci. Lab., Miyazaki Pref. Police H.Q.^{*3})

A-08 A study on the development of image processing software that integrates surface and volume data

○S. Katsumura^{*1}, T. Ikawa^{*2}, S. Suzuki^{*3}, T. Kihara^{*4}, Y. Shigeta^{*2}, K. Sato^{*1}, T. Ogawa^{*2} (Dept. of Forensic Med. and Dentistry Tsurumi Uni.^{*1}, Dept. of Fixed Prosthodontics Tsurumi Uni.^{*2}, I-NET Corp. Solution Dept. 3D Division^{*3}, Dept. of Oral Biology and Engineering, Graduate School of Biomedical Sci., Hiroshima Univ.^{*4})

13:30 – 14:14

Chairperson: *N. Mizuno (National Research Inst. of Police Sci.)*

A-09 Quantification of bacterial counts in blood and bloodstain samples containing the bacteria by real-time PCR

○J. Muto, Y. Fujinami, N. Mizuno (National Research Inst. of Police Sci.)

A-10 Sample preservation for forensic microbial analysis

○Y. Fujinami, J. Muto, N. Mizuno (National Research Inst. of Police Sci.)

A-11 Cases of bone DNA extraction using easy EDTA decalcification

○M. Yamaji (Forensic Sci. Lab., Kagawa Pref. Police H.Q.)

A-12 An attempt to genotype STRs from human shed hair

○Y. Hiroshige^{*1,2}, T. Yamamoto^{*2}, T. Yoshimoto^{*2}, A. Ishii^{*2} (Criminal Invest. Lab., Aichi Pref. Police

H.Q.^{*1}, Department of Legal Medicine & Bioethics, Graduate School of Medicine, Nagoya University^{*2})

14:24 – 15:08

Chairperson: K. Sekiguchi (National Research Inst. of Police Sci.)

A-13 A case of DNA typing from a hydatidiform mole

○M. Kumazaki, T. Takayama, C. Mori, N. Takada, Y. Watanabe (Criminal Invest. Lab., Gifu Pref. Police H.Q.)

A-14 Identification of bone marrow transplant recipients

○N. Mori^{*1}, H. Yasuoka^{*1}, T. Ono^{*1}, Y. Tomisaka^{*1}, E. Nishi^{*1}, S. Inoguchi^{*2}, T. Kitayama^{*2}, K. Fujii^{*2}, H. Nakahara^{*2}, K. Sekiguchi^{*2} (Forensic Sci. Lab., Oita Pref. Police H.Q.^{*1}, National Research Inst. of Police Sci.^{*2})

A-15 Study of methods for STR analysis from touched evidence

○S. Hashimoto, H. Yamaguchi, T. Hisatomi, A. Ishiko (Forensic Sci. Lab., Fukuoka Pref. Police H.Q.)

A-16 Effect of detection methods of latent fingerprints on STR typing (4th presentation)

○K. Fujii^{*1}, T. Abe^{*2}, K. Hibino^{*2}, T. Kiryu^{*2}, M. Ito^{*2}, S. Inokuchi^{*1}, T. Kitayama^{*1}, H. Nakahara^{*1}, N. Mizuno^{*1}, K. Sekiguchi^{*1} (National Research Inst. of Police Sci.^{*1}, Identification Div., National Police Agency^{*2})

15:18 – 15:51

Chairperson: A. Akane (Dept. of Legal Med., Kansai Medical Univ.)

A-17 Enhanced recovery of Sperm DNA by acid treatment

○T. Nakagawa^{*1,2}, T. Ohno^{*1}, M. Doi^{*1}, H. Miyake^{*1}, T. Okiura^{*1}, R. Tanabe^{*2}, H. Nishimukai^{*2} (Criminal Invest. Lab., Ehime Pref. Police H.Q.^{*1}, Dept. of Legal Med., Graduate School of Med., Univ. of Ehime^{*2})

A-18 Predicting binding sites of primers included in AmpF/STR[®] Identifiler[®] PCR amplification Kit

○N. Mizuno, S. Inokuchi, T. Kitayama, K. Fujii, H. Nakahara, K. Kasai, K. Sekiguchi (National Research Inst. of Police Sci.)

A-19 Study of peak detection threshold in capillary electrophoresis using interpretation of analytical threshold and stochastic threshold

○S. Inokuchi, T. Kitayama, K. Fuji, H. Nakahara, N. Mizuno, K. Sekiguchi (National Research Inst. of Police Sci.)

Friday 18 November Hall I (Fuji)

10:45 – 11:29

Chairperson: H. Sato (Scientific Invest. Lab., Fukushima Pref. Police H.Q.)

A-20 Vomit identification by enzymological method with skim milk gel

○A. Igoh, Y. Doi (Criminal Invest. Lab., Okayama Pref. Police H.Q.)

A-21 Identification of human blood on water-insoluble bloodstain by methamphetamine

○T. Sato, M. Kawabata (Forensic Sci. Lab., Ibaraki Pref. Police H.Q.)

A-22 Identification of human corneocyte by immunostaining using anti-SCC (squamous cell carcinoma antigen) antibodies

○T. Morikawa^{*1,2}, T. Kudose^{*1}, Y. Yamamoto^{*2} (Forensic Sci. Lab., Hiroshima Pref. Police. H.Q.^{*1}, Dept. of Legal Med., Okayama Univ. Grad. School of Med.^{*2})

A-23 Identification of body fluid stains by real-time RT-PCR assay – Study for discriminating among nasal

secretion, saliva and vaginal secretion –

○K. Sakurada, T. Akutsu, K. Watanabe, M. Yoshino (National Research Inst. of Police Sci.)

12:40 – 13:24

Chairperson: K. Sakurada (National Research Inst. of Police Sci.)

A-24 Tracing of the geographical origins of unidentified cadavers using hepatitis B virus and hepatitis C virus genotypes – Applications to real forensic samples combined with VZV method –

○H. Inoue^{*1,2}, H. Motani^{*2}, K. Sakurada^{*3}, H. Ikegaya^{*4}, D. Yajima^{*2}, M. Hayakawa^{*2}, K. Otsuka^{*2}, K. Kobayashi^{*2}, K. Sato^{*2}, H. Iwase^{*2} (Forensic Sci. Lab., Chiba Pref. Police H.Q.^{*1}, Department of Legal Med., Graduate School of Med., Chiba University^{*2}, National Research Inst. of Police Sci.^{*3}, Department of Legal Med., Kyoto Pref. University of Med.^{*4})

A-25 A Case of intraspecies discrimination of sugi by microsatellite analysis

○S. Masuzaki^{*1}, A. Matsumura^{*1}, N. Araki^{*1}, M. Shigyo^{*2} (Forensic Sci. Lab., Yamaguchi Pref. Police H.Q.^{*1}, Faculty of Agriculture, Yamaguchi University^{*2})

A-26 Forensic investigation of digested food materials – an approach based on both histological examination and DNA analysis

○M. Sakurada^{*1,2}, A. Kuse^{*2}, M. Morichika^{*2}, K. Nakagawa^{*2}, Y. Ueno^{*2} (Forensic Sci. Lab., Hyogo Pref. Police H.Q.^{*1}, Legal Med. Kobe Univ.^{*2})

A-27 The study on histological changes of food after exposure to experimental digestive conditions

○S. Kubota, A. Hattori, H. Matsuda (National Research Inst. of Police Sci.)

Forensic Toxicology (B)

Thursday 17 November Hall II (Hagoromo)

09:00 – 09:33 Chairperson: Y. Adachi (Forensic Sci. Lab., Hokkaido Police Asahikawa Regional H.Q.)

B-01 Degradation of 4-methylmethcathinone in alkaline solution

○K. Tsujikawa, K. Kuwayama, H. Miyaguchi, K. Kanamori, Y.T. Iwata, H. Inoue (National Research Inst. of Police Sci.)

B-02 Determination of barbiturates in biological samples using improved solid-phase dispersive extraction technique and LC/TOF-MS

○K. Saito, Y. Kokaji, Y. Kikuchi, Y. Kobayashi, Y. Iwasaki, R. Ito, H. Nakazawa (Department of Analytical Chemistry, Faculty of Pharmaceutical Sciences, Hoshi University)

B-03 Examination of screening for drug abuse by DART-TOFMS

○M. Higuchi (Criminal Invest. Lab., Saitama Pref. Police H.Q.)

09:38 – 10:11

Chairperson: M. Yoshida (Dept. of Legal Med., Kansai Medical Univ.)

B-04 Rapid screening of drugs by matrix-assisted laser desorption/ionization (MALDI)

○T. Asano^{*1}, D. Watanabe^{*2}, T. Yamamuro^{*2}, H. Ohta^{*2}, O. Ohtsuru^{*2}, J. Suzuki^{*3}, T. Fujino^{*3} (Criminal

Invest. Lab., Metropolitan Police Dept.^{*1}, National Research Inst. of Police Sci.^{*2} Tokyo Metropolitan University^{*3})

B-05 Simple and rapid analysis of drugs by field desorption-mass spectrometry

○T. Hamamoto, T. Mikuma, H. Ishii (Forensic Sci. Lab., Chiba Pref. Police H.Q.)

B-06 Application of the high-frequency heating for drug analysis in human hair

○F. Takahashi^{*1}, K. Kobayashi^{*1}, K. Kurihara^{*2}, S. Muramatsu^{*3} (Forensic Sci. Lab., Nagano Pref. Police H.Q.^{*1}, former DIC Inc.^{*2}, former JEOL Ltd.^{*3})

10:16 – 10:49

Chairperson: S. Ito (Forensic Sci. Lab., Yamagata Pref. Police H.Q.)

B-07 Development of concentration method on capillary electrophoresis by in-line solid phase extraction

○Y. Sasajima^{*1}, K. Suenami^{*1}, K. Sato^{*1}, Y. Takekoshi^{*1}, L. W. Lim^{*2}, T. Takeuchi^{*2} (Criminal Invest. Lab., Gifu Pref. Police H.Q.^{*1}, Faculty of Engineering, Gifu Univ.^{*2})

B-08 Synthesis of deuterium-labeled drugs by hydrogen/deuterium exchange reaction

○K. Hisatsune, M. Sato (Criminal Invest. Lab., Aichi Pref. Police H.Q.)

B-09 Detection of strychnine in addition to some psychotropic drugs from body fluids of a person, who drove a car over 60 km in length and dived into the sea oneself after ingesting the poison

○M. Aoyama^{*1}, Y. Saito^{*1}, K. Inoue^{*1}, S. Yoshiyagawa^{*2} (Forensic Sci. Lab., Hokkaido Pref. Police H.Q.^{*1}, Forensic Sci. Lab., Hokkaido Police Kushiro Regional H.Q.^{*2})

13:30 – 14:03

Chairperson: K. Tsujikawa (National Research Inst. of Police Sci.)

B-10 Simultaneous determination of enantiomers of MDMA and its metabolites in urine

○K. Nakanishi^{*1}, N. Shima^{*1}, H. Kamata^{*1}, T. Kamata^{*1}, M. Katagi^{*1}, A. Miki^{*1}, M. Tatsuno^{*1}, T. Sato^{*2}, H. Tsuchihashi^{*2}, K. Suzuki^{*2} (Forensic Sci. Lab., Osaka Pref. Police H.Q.^{*1}, Dept. of Legal Med., Osaka Medical College^{*2})

B-11 Screening and determination for drugs in whole blood by column-switching LC/MS

○K. Kawashima, H. Mohri, K. Wakigawa, A. Tsujita, H. Okazaki, S. Haraguchi, M. Matsumoto, S. Fukushima (Forensic Sci. Lab., Fukuoka Pref. Police H.Q.)

B-12 Extraction of drugs in blood using dispersive solid-phase extraction technique

○S. Matsuta^{*1}, K. Nakanishi^{*1}, H. Nishioka^{*1}, M. Katagi^{*1}, M. Tatsuno^{*1}, K. Tsuboi^{*2}, H. Tsuchihashi^{*2}, K. Suzuki^{*2} (Forensic Sci. Lab., Osaka Pref. Police H.Q.^{*1}, Dept. of Legal Med., Osaka Medical College^{*2})

14:10 – 14:43

Chairperson: T. Kanamori (National Research Inst. of Police Sci.)

B-13 Investigation of conditions for phase separation in the liquid-liquid extraction using hydrophilic organic solvents

○M. Yoshida^{*1}, A. Akane^{*1}, M. Katagi^{*2}, H. Tsuchihashi^{*3}, K. Suzuki^{*3} (Dept. of Legal Med., Kansai Medical Univ.^{*1}, Forensic Sci. Lab., Osaka Pref. Police H.Q.^{*2}, Dept. of Legal Med., Osaka Medical Coll.^{*3})

B-14 Analysis of helium in blood

○E. Norimine^{*1,3}, K. Miyata^{*1}, F. Ishizawa^{*1}, M. Takasu^{*2}, K. Honda^{*3} (Forensic Sci. Lab., Ibaraki Pref. Police H.Q.^{*1}, First Criminal Invest. Div., Ibaraki Pref. Police H.Q.^{*2}, Field of Legal Medicine, Doctoral Program of Life Sciences, Graduated School of Comprehensive Human Science, University of

Tsukuba^{*3})

- B-15 Analysis of tetrodotoxin in urine by LC/TOF-MS
○T. Koizumi (Forensic Sci. Lab., Yamaguchi Pref. Police H.Q.)

14:50 – 15:34

Chairperson: M. Kanamori (National Research Inst. of Police Sci.)

- B-16 LC-MS/MS analysis of ginsenosides in health foods
○H. Ohta, D. Watanabe, T. Yamamuro, Y. Kazui, O. Ohtsuru (National Research Inst. of Police Sci.)
- B-17 Analysis of colchicine and its analogs in gloriosa by Accelerated Solvent Extraction-LC/MS
○M. Takino^{*1}, N. Shimoi^{*2}, T. Yamagami^{*2} Agilent Technologies Japan, Ltd^{*1}, NISHIKAWA KEISOKU Co., LTD^{*2})
- B-18 Determination of paraquat and diquat in beverages by oxidation method - gas chromatography/mass spectrometry and/or liquid chromatography/mass spectrometry
○Y. Suzuki, T. Kaneko (Forensic Sci. Lab., Chiba Pref. Police H.Q.)
- B-19 Source identification of methamidophos by using high precision analytical methods of stable carbon isotope ratio
○I. Asakura, H. Kawashima (Akita Prefectural University)

15:45 – 16:18

Chairperson: A. Watanabe (Forensic Sci. Lab., Hokkaido Pref. Police H.Q.)

- B-20 Influence of vitamin C on detection of arsenious acid by ion chromatograph
○S. Murata, T. Mukai, M. Kusatani (Forensic Sci. Lab., Nara Pref. Police H.Q.)
- B-21 Forensic discrimination of chlorine bleaches
○Y. Adachi^{*1}, S. Ito^{*2}, H. Nojima^{*3} (Forensic Sci. Lab., Hokkaido Police Asahikawa Regional H.Q.^{*1}, Forensic Sci. Lab., Yamagata Pref. Police H.Q.^{*2}, Forensic Sci. Lab., Chiba Pref. Police H.Q.^{*3})
- B-22 Reaction of allyl isothiocyanate with alcohol
○M. Kanamori-Kataoka, E. Noguchi, T. Kanamori, T. Ohmori, K. Tsuge, I. Ohsawa, T. Sato, Y. Seto (National Research Inst. of Police Sci.)

Forensic Chemistry (C)

Thursday 17 November Hall II (Hagoromo)

16:30 – 17:03

Chairperson: D. Watanabe (National Research Inst. of Police Sci.)

- C-01 Analysis and forensic discrimination of tea drink using gas chromatography/mass spectrometry
○T. Sakurai, S. Kurata (Criminal Invest. Lab., Metropolitan Police Dept.)
- C-02 Discrimination of amino acid drink by gas chromatography/mass spectrometry
○S. Kurata (Criminal Invest. Lab., Metropolitan Police Dept.)
- C-03 Analysis of semisolid dressings
○K. Yamaguchi, S. Kurata (Criminal Invest. Lab., Metropolitan Police Dept.)

17:10 – 17:54

Chairperson: M. Takahashi (Forensic Sci. Lab., Iwate Pref. Police H.Q.)

C-04 Rapid analysis of ball point pen inks using DART-TOFMS

○H. Nakayama, N. Imanari (Criminal Invest. Lab., Saitama Pref. Police H.Q.)

C-05 Development of database for cloth adhesive tapes – Database using pyrograms of adhesive –

○T. Goto, Y. Matsuyama (Forensic Sci. Lab., Shizuoka Pref. Police H.Q.)

C-06 Discrimination of polyamide polymers by evolved gas analysis – mass spectrometry (EGA-MS)

○A. Hosaka^{*1}, C. Watanabe^{*1}, H. Ohtani^{*2} (Frontier Laboratories Ltd.^{*1}, Nagoya Institute of Technology^{*2})

C-07 Discrimination of minute foreign materials in beverage by pyrolysis GC/MS analysis

○N. Kimura, S. Furukubo, K. Nakashima, M. Harada (Suntory Business Expert Limited, Safety Science Institute Quality Assurance Division)

Friday 18 November Hall II (Hagoromo)

10:40 – 11:35

Chairperson: R. Sugita (National Research Inst. of Police Sci.)

C-08 Forensic discrimination of toilet paper

○A. Nagasaka, Y. Taguchi, A. Gohda, K. Wakigawa, H. Mohri, Y. Kinoshita, H. Ikeda, S. Fukushima (Forensic Sci. Lab., Fukuoka Pref. Police H.Q.)

C-09 Discrimination of paper based kraft tapes by two-dimensional Fourier transform (3)

○S. Sasaoka^{*1,2}, K. Saito^{*1}, M. Watanabe^{*1}, S. Hatakeyama^{*1}, N. Tachiiri^{*1}, K. Miura^{*1}, K. Higashi^{*2}, W. Limwikrant^{*2}, K. Moribe^{*2}, K. Yamamoto^{*2} (Forensic Sci. Lab., Miyagi Pref. Police H.Q.^{*1}, Graduate School of Pharm. Sci., Chiba Univ.^{*2})

C-10 Area inference from intertidal shellfishes

○K. Ueda^{*1}, S. Yamamoto^{*1}, S. Ikebe^{*2} (Forensic Sci. Lab., Wakayama Pref. Police H.Q.^{*1}, The Malacological Society of Japan^{*2})

C-11 Discrimination of rice hulls by comparative form observation

○Y. Suzuki, N. Nakazawa (Forensic Sci. Lab., Yamanashi Pref. Police H.Q.)

C-12 Identification of sand as fine aggregate

○T. Hashimoto (Forensic Sci. Lab., Hyogo Pref. Police H.Q.)

12:40 – 13:35

Chairperson: Y. Suzuki (National Research Inst. of Police Sci.)

C-13 Development of discrimination method and construction of forensic database of soils from Japan by using synchrotron X-ray analysis

○S. Furuya^{*1}, W. B. S. Kai^{*1}, H. Suzuki^{*1}, I. Maeda^{*1}, M. Iwai^{*1}, Y. Abe^{*1}, I. Nakai^{*1}, K. Osaka^{*2}, T. Matsumoto^{*2}, N. Imai^{*3}, T. Ninomiya^{*2} (Tokyo Univ. of Sci.^{*1}, JASRI^{*2}, AIST^{*3})

C-14 Application of particle analysis program for SEM to asbestos containing materials

○I. Abe, M. Kazama, M. Kudo (Criminal Invest. Lab., Metropolitan Police Dept.)

C-15 Study on forensic discrimination of glass fragments (1)

○O. Noguchi (Criminal Invest. Lab., Okayama Pref. Police H.Q.)

C-16 The collection and identification of SUS 304 stainless steel spatters from fire scene

○WT. Chang^{*1}, CT. Wang^{*2}, CW. Kuo^{*3}, A. Pan^{*4}, YJ. Li^{*4} (Central Police University^{*1}, St. John's University^{*2}, National Fire Agency^{*3}, Ming Chi University of Technology^{*4}, Taiwan)

- C-17 The study of the forensic discrimination for bullet samples by using double focusing ICP-MS
○Y. Shimamura, I. Nakai (Tokyo University of Science's faculty of science)

13:45 – 14:18 *Chairperson: K. Tsuchimichi (Forensic Sci. Lab., Hiroshima Pref. Police H.Q.)*

- C-18 Discrimination between acrylic fibre and modacrylic fibre by the solubility in *N,N*-dimethylformamide solution
○K. Suga^{*1}, T. Shibayama^{*1}, M. Kumihashi^{*1}, Y. Narita^{*2}, S. Suzuki^{*3} (Forensic Sci. Lab., Kagawa Pref. Police H.Q.^{*1}, Forensic Sci. Lab., Hokkaido Police Hakodate Regional H.Q.^{*2}, National Research Inst. of Police Sci.^{*3})
- C-19 Forensic discrimination of polyvinyl chloride food wrap film
○S. Hatakeyama, M. Watanabe, N. Tachiiri, S. Sasaoka, K. Saito, K. Miura (Forensic Sci. Lab., Miyagi Pref. Police H.Q.)
- C-20 Analysis of paint removers
○A. Ishiba, S. Okuyama (Criminal Invest. Lab., Aichi Pref. Police H.Q.)

14:25 – 14:58 *Chairperson: K. Nakao (Forensic Sci. Lab., Tottori Pref. Police H.Q.)*

- C-21 Screening of paint chips using hot melt glue stick
○T. Ishiwata (Forensic Sci. Lab., Ibaraki Pref. Police H.Q.)
- C-22 Analysis of some depositions on a single fiber by the use of photoacoustic spectroscopy
K. Imai, ○S. Ochiai (S. T, JAPAN INC.)
- C-23 Development of a homemade Raman microscope
○D. Watanabe, H. Ohta, O. Ohtsuru (National Research Inst. of Police Sci.)

15:05 – 15:49 *Chairperson: I. Abe (Criminal Invest. Lab., Metropolitan Police Dept.)*

- C-24 Combustion behavior and forensic chemical analysis of CRC5-56 and kerosene
○Y. Ehara, Y. Endo, T. Suwa, T. Hirose (Criminal Invest. Lab., Saitama Pref. Police H.Q.)
- C-25 The detection of kerosene in the carbonization wood (II)
○ T. Nakamura, K. Aoyama, K. Nanjo (Analysis Center, Hokkaido Kantei Co., Ltd.)
- C-26 Study on remained amount of kerosene in various building products
○K. Tateno^{*1}, N. Kawamoto^{*1}, Y. Kaneko^{*1}, Y. Kobayashi^{*1}, T. Sato^{*1}, Y. Murahama^{*1}, G. Sato^{*1}, M. Asari^{*2}, A. Hirata^{*2}, Analysis Center Co., Ltd.^{*1}, Japan Specialist in Law Engineering Corporation^{*2})
- C-27 Sampling of ignitable liquids deposited on hands (2)
○ T. Iyozumi, N. Aizawa, S. Kurata (Criminal Invest. Lab., Metropolitan Police Dept.)

16:00 – 16:44 *Chairperson: T. Hashimoto (Forensic Sci. Lab., Hyogo Pref. Police H.Q.)*

- C-28 Identification of sulfur-containing compounds in fuel oil by using comprehensive two-dimensional gas chromatograph mass spectrometer (GCxGC-MS)
○H. Miyagawa^{*1}, R. Kitano^{*1}, M. Hirooka^{*1}, K. Nakagawa^{*1}, T. Kaneko^{*2} (SHIMADZU CORPORATION^{*1}, Forensic Sci. Lab., Chiba Pref. Police H.Q.^{*2})
- C-29 Rapid analysis method for type of oil by FT-IR (ATR)
○K. Machigashira, A. Yoshida, M. Sakon, M. Taki (Coast Guard Research Center)
- C-30 Analysis of organic peroxide (TATP) by GC/TOF-MS

13:30 – 14:25

Chairperson: T. Shigematsu (*Forensic Sci. Lab., Ehime Pref. Police H.Q.*)

D-10 Combustion of a plywood wall from gasoline pool fire

○M. Honma^{*1}, H. Miyamoto^{*1}, T. Hino^{*1}, M. Hiramatsu^{*1}, K. Okamoto^{*1}, N. Watanabe^{*1}, Y. Hagimoto^{*1}, K. Kamiya^{*2}, O. Sugawa^{*3} (National Research Inst. of Police Sci.^{*1}, Yokohama National Univ.^{*2}, Tokyo Univ. of Sci., Suwa^{*3})

D-11 Simulation of fire spread to a plywood

○H. Miyamoto^{*1}, M. Hiramatsu^{*1}, T. Hino^{*1}, K. Okamoto^{*1}, M. Honma^{*1}, N. Watanabe^{*1}, Y. Hagimoto^{*1}, K. Kamiya^{*2}, O. Sugawa^{*3} (National Research Inst. of Police Sci.^{*1}, Yokohama National Univ.^{*2}, Tokyo Univ. of Sci., Suwa^{*3})

D-12 Reproduction of burning behavior of alcohol fuel by FDS

○S. Ogihara^{*1}, O. Sugawa^{*2}, T. Imamura^{*2}, K. Kamiya^{*3} (Tokyo University of Science, Suwa^{*1}, Tokyo University of Science, Suwa^{*2}, Yokohama National University^{*3})

D-13 Reproduction of burning behavior of HV by FDS

○Y. Yamazaki^{*1}, O. Sugawa^{*2}, T. Imamura^{*2}, K. Kamiya^{*3}, M. Honma^{*4}, K. Okamoto^{*4}, N. Watanabe^{*4}, Y. Hagimoto^{*4} (Tokyo University of Science, Suwa.^{*1}, Tokyo University of Science, Suwa.^{*2} Yokohama National University.^{*3}, National Research Inst. of Police Sci.^{*4})

D-14 Reproduction of gas concentration behavior by FDS

○K. Kamiya^{*1}, O. Sugawa^{*2}, T. Imamura^{*2} (Yokohama National University^{*1}, Tokyo University of Science, Suwa^{*2})

14:32 – 15:27

Chairperson: S. Miyoshi (*Forensic Sci. Lab., Kochi Pref., Police H.Q.*)

D-15 Parameterization of measured heat release rates in car fire tests

○K. Okamoto, M. Hiramatsu, H. Miyamoto, T. Hino, M. Honma, N. Watanabe, Y. Hagimoto (National Research Inst. of Police Sci.)

D-16 Case study on passenger car arson which was ignited the plastic bumper

○Y. Endo, T. Suwa, T. Hirose (Criminal Invest. Lab., Saitama Pref. Police H.Q.)

D-17 Consideration about the combustion form of assistance fuel used for the arson

○N. Miyamoto, S. Kotani, K. Ueda (Forensic Sci. Lab., Wakayama Pref. Police H.Q.)

D-18 Explosion characteristics of spilt gasoline in 1 L, 64 L and 216 L combustion vessels

○N. Watanabe^{*1}, T. Hino^{*1}, M. Hiramatsu^{*1}, H. Miyamoto^{*1}, K. Okamoto^{*1}, M. Honma^{*1}, Y. Hagimoto^{*1}, S. Matsui^{*2}, K. Sato^{*3} (National Research Inst. of Police Sci.^{*1}, Yamatoprotec Corp.^{*2}, Toho Univ.^{*3})

D-19 The combustion characteristics of building materials

○SH. Sa, JY. Song, JW. Nam, JT. Park, JP. Kim (National Forensic Service, Korea)

Firearms

15:34 – 16:18

Chairperson: T. Nakayama (*Scientific Crime Lab., Kanagawa Pref. Police H.Q.*)

D-20 Variation of firing marks of Makarov semiautomatic pistol

○M. Nagai (National Research Inst. of Police Sci.)

D-21 Identification based on quantification of cartridge marking from Makarov

○T. Nitobe (National Research Inst. of Police Sci.)

D-22 Measurement of cocking force of high powered toy gun

○T. Fuwa, S. Takeuchi, K. Nakano (Criminal Invest. Lab., Gifu Pref. Police H.Q.)

D-23 Load measurement by the impact of a bullet on the steel plate

○M. Ishii^{*1}, Y. Iwatsu^{*2}, T. Nitobe^{*1}, E. Tatsumi^{*1}, T. Kubodera^{*1}, M. Iizuka^{*1} (National Research Inst. of Police Sci.^{*1}, Criminal Invest. Lab., Oita Pref. Police H.Q.^{*2})

16:25 – 17:09 *Chairperson: K. Akita (Forensic Sci. Lab., Hokkaido Police Hakodate Regional H.Q.)*

D-24 Estimation of handgun-bullet-firing-direction based on a damage at automotive front glass

○S. Hirakawa^{*1}, S. Satoyama^{*2}, A. Saimoto^{*3} (Forensic Sci. Lab., Nagasaki Pref. Police H.Q.^{*1}, Traffic Guidance Div., Nagasaki Pref. Police H.Q.^{*2}, Graduate School of Engineering, Nagasaki Univ.^{*3})

D-25 Estimate of the bullet and the projectile path from the trail of the ricochet on the steel plate

○K. Toyama, A. Hirashima, H. Takeshita, Y. Nishijima (Forensic Sci. Lab., Fukuoka Pref. Police H.Q.)

D-26 Presumption of firing range by pigskin target

○R. Uchida, T. Hirata, K. Nishidate, H. Fukushima, N. Abiko (Forensic Sci. Lab., Hokkaido Pref. Police H.Q.)

D-27 Patterns of gunshot residues with close range shots

○K. Shibasaki (Forensic Sci. Lab., Chiba Pref. Police H.Q.)

Mechanical Engineering

17:16 – 18:22

Chairperson: T. Nitobe (National Research Inst. of Police Sci.)

D-28 Metal fatigue fracture under multiple change load condition

○M. Iizuka, M. Ishii, T. Nitobe (National Research Inst. of Police Sci.)

D-29 A study on fracture surface of PMMA

○M. Nakamura^{*1}, T. Honda^{*2}, M. Matsubara^{*3}, T. Sasaki^{*2}, K. Yamagiwa^{*2}, A. Yamaguchi^{*2} (Criminal Invest. Lab., Metropolitan Police Dept.^{*1}, Japan National Institute for Occupational Safety and Health^{*2}, Gunma Univ. Graduate School of Engineering^{*3})

D-30 Fatigue life evaluation of bolt having tightening torque under random loading

○Y. Choi (National Forensic Service, Korea)

D-31 Knife-penetration test of robot

○T. Kubodera, M. Iizuka (National Research Inst. of Police Sci.)

D-32 Computer Simulation for the estimate of the way of bone damage

○T. Nemoto^{*1}, Y. Ito^{*1}, A. Harada^{*1}, H. Matsuura^{*1}, R. Kubota^{*1}, A. Shimamoto^{*2} (National Center for Geriatrics and Gerontology^{*1}, Saitama Institute of Technology^{*2})

D-33 Striking power identification by computer simulation

○Y. Ito^{*1}, T. Nemoto^{*1}, R. Kubota^{*1}, T. Ogura^{*2}, H. Toda^{*2}, T. Kimura^{*3}, M. Matsui^{*3} (National Center for Geriatrics and Gerontology^{*1}, Forensic Sci. Lab., Mie Pref. Police H.Q.^{*2}, Criminal Invest. Lab., Aichi Pref. Police H.Q.^{*3})

Friday 18 November Hall III (Fuyo-higashi)

Traffic Accidents

10:40 – 11:13

Chairperson: R. Oga (National Research Inst. of Police Sci.)

D-34 Experimental analysis of car-to-car rear-end collision

○M. Fujita (The Jiken Center Co., Ltd.)

D-35 The consideration of the stepping stones accident

○S. Aimi (Appraiser of reconstruction)

D-36 Estimation of the deceleration of crashed car by pushing manually

○Y. Motomiya^{*1}, K. Koide^{*2}, F. Matsukawa^{*3} (Forensic Sci. Lab., Niigata Pref. Police H.Q.^{*1}, Forensic Sci. Lab., Osaka Pref. Police H.Q.^{*2}, Japan Automobile Research Institute^{*3})

11:21 – 11:54

Chairperson: M. Jou (Forensic Sci. Lab., Toyama Pref., Police H.Q.)

D-37 Deformation energy software development for automotive collision impact

○K. Taneda (Automobile traffic accident analysis science laboratory)

D-38 Study on frame rates of recorded video on drive recorders

○K. Kato, N. Takubo, K. Hagita, R. Oga, T. Hiromitsu (National Research Inst. of Police Sci.)

D-39 The research of driver's braking operation after rear-end collision accidents

○R. Oga, T. Terashima (National Research Inst. of Police Sci.)

12:40 – 13:24

Chairperson: T. Abe (Forensic Sci. Lab., Miyagi Pref. Police H.Q.)

D-40 Analysis of small overlap frontal collision

○S. Ishii^{*1}, H. Okui^{*2}, K. Kurata^{*3}, T. Fukawa^{*4}, T. Hiromitsu^{*5}, K. Kato^{*5}, R. Oga^{*5}, K. Hagita^{*5}, N. Takubo^{*5} (Forensic Sci. Lab., Chiba Pref. Police H.Q.^{*1}, Criminal Invest. Lab., Saitama Pref. Police H.Q.^{*2}, Forensic Sci. Lab., Sizuoka Pref. Police H.Q.^{*3}, Forensic Sci. Lab., Hyogo Pref. Police H.Q.^{*4}, National Research Inst. of Police Sci.^{*5})

D-41 Analysis of a vehicle rollover caused by a small overlap collision

○H. Okui^{*1}, S. Ishii^{*2}, K. Kurata^{*3}, T. Fukawa^{*4}, T. Hiromitsu^{*5}, K. Kato^{*5}, R. Oga^{*5}, K. Hagita^{*5}, N. Takubo^{*5} (Criminal Invest. Lab., Saitama Pref. Police H.Q.^{*1}, Forensic Sci. Lab., Chiba Pref. Police H.Q.^{*2}, Forensic Sci. Lab., Shizuoka Pref. Police H.Q.^{*3}, Forensic Sci. Lab., Hyogo Pref. Police H.Q.^{*4}, National Research Inst. of Police Sci.^{*5})

D-42 Analysis of frontal collision into a ferroconcrete pole

○T. Ogura^{*1}, J. Matsuda^{*2}, M. Jou^{*3}, K. Hagita^{*4}, R. Oga^{*4}, K. Kato^{*4}, T. Hiromitsu^{*4}, N. Takubo^{*4} (Forensic Sci. Lab., Mie Pref., Police H.Q.^{*1}, Forensic Sci. Lab., Miyagi Pref., Police H.Q.^{*2}, Forensic Sci. Lab., Toyama Pref., Police H.Q.^{*3}, National Research Inst. of Police Sci.^{*4})

D-43 Analysis of underride car crash test

○H. Kawato^{*1}, R. Uchida^{*2}, K. Suzuki^{*3}, K. Isawa^{*4}, N. Takubo^{*5}, K. Hagita^{*5}, R. Oga^{*5}, K. Kato^{*5}, T. Hiromitsu^{*5} (Scientific Invest. Lab., Aomori Pref. Police H.Q.^{*1}, Forensic Sci. Lab., Hokkaido Pref. Police H.Q.^{*2}, Forensic Sci. Lab., Ibaraki Pref. Police H.Q.^{*3}, Forensic Sci. Lab., Tokushima Pref. Police H.Q.^{*4}, National Research Inst. of Police Sci.^{*5})

13:31 – 14:04

Chairperson: H. Okui (Criminal Invest. Lab., Saitama Pref. Police H.Q.)

D-44 Study on basic characteristics of event data recorder (EDR) using crash test data (3rd report)

○N. Takubo, K. Hagita, K. Kato, T. Hiromitsu, R. Oga (National Research Inst. of Police Sci.)

D-45 Engine brake performance of Motorcycle (II)

○H. Toda^{*1}, T. Ogura^{*1}, T. Itou^{*2}, K. Ueji^{*2} (Forensic Sci. Lab., Mie Pref. Police H.Q.^{*1}, Traffic Enforcement Div., Mie Pref. Police H.Q.^{*2})

D-46 A study of the friction coefficient by braking a motorcycle equipped with ABS

○S. Hosoe^{*1}, M. Matsui^{*1}, K. Ohashi^{*2}, T. Makihara^{*2} (Criminal Invest. Lab., Aichi Pref. Police H.Q.^{*1}, Traffic Invest. Div., Aichi Pref. Police H.Q.^{*2})

Image Processing, etc.

14:11 – 15:06

Chairperson: K. Kadono (Forensic Sci. Lab., Shiga Pref. Police H.Q.)

D-47 Discrimination of car license plate number from low resolution images using moment feature

○N. Takamura^{*1}, K. Fujita^{*1}, K. Shinomiya^{*2}, N. Nakamori^{*3} (Graduate School of Science and Technology, Ryukoku University.^{*1}, Forensic Sci. Lab., Hyogo Pref. Police H.Q.^{*2}, Graduate School of Science and Technology, Kyoto Institute of Technology^{*3})

D-48 Development of software that recognizes license plate numbers from low-resolution image, and study for accuracy improvement (2)

○Y. Fujita, K. Sato, Y. Iwatsu, S. Watanabe (Criminal Invest. Lab., Oita Pref. Police H.Q.)

D-49 Improvement of classification rules for low-resolution license plate numbers (Part 6)

○A. Yoshikawa^{*1}, Y. Kida^{*2}, K. Kadono^{*2}, H. Tsuji^{*2}, K. Fujita^{*3} (Konan Accounting School^{*1}, Forensic Sci. Lab., Shiga Pref. Police H.Q.^{*2}, Ryukoku Univ.^{*3})

D-50 Determination of positions on images

○T. Ikegami (Forensic Sci. Lab., Shizuoka Pref. Police H.Q.)

D-51 Hybrid standards analysis from working angles on trigonal object: Hayato

○S. Mizuta (Research Inst. of Scientific Criminal Invest., Fukui Pref. Police H.Q.)

15:13 – 15:57

Chairperson: T. Ogura (Forensic Sci. Lab., Mie Pref., Police H.Q.)

D-52 Parameter estimation of motion-blurred JPEG image

○K. Kadono^{*1}, K. Fujita^{*2}, N. Nakamori^{*3} (Forensic Sci. Lab., Shiga Pref. Police H.Q.^{*1}, Ryukoku University, Faculty of Science and Engineering^{*2}, Kyoto Institute of Technology, Graduate School^{*3})

D-53 Evaluation of reconstruction algorithms for multi-frame super-resolution image processing

○K. Kurosawa, K. Kuroki, K. Tsuchiya, N. Igarashi (National Research Inst. of Police Sci.)

D-54 Surface shape profiling of coins by using white light interferometer

○S. Sugawara (National Research Inst. of Police Sci.)

D-55 Evaluation of radiation measurement and protection devices for emergency radiological or nuclear crises

○K. Tsuchiya, K. Kuroki, K. Kurosawa, N. Igarashi (National Research Inst. of Police Sci.)

Speech and Acoustics

16:04 – 16:26

Chairperson: K. Shinomiya (Forensic Sci. Lab., Hyogo Pref. Police H.Q.)

D-56 A study on nonstationary noise reduction using adaptive filtering and spectral subtraction

○H. Makinae, T. Kamada, T. Osanai (National Research Inst. of Police Sci.)

D-57 Identification of native and non-native speech using spoken telephone numbers

○K. Amino^{*1,2}, T. Osanai^{*1} (National Research Inst. of Police Sci.^{*1}, Japan Society for the Promotion of Science^{*2})

16:26 – 16:59

Chairperson: H. Makinae (National Research Inst. of Police Sci.)

D-58 Residence information of speakers using vowels in words

○T. Kamada^{*1}, T. Osanai^{*1}, H. Makinae^{*1}, K. Amino^{*1,2} (National Research Inst. of Police Sci.^{*1}, Japan

Society for the Promotion of Science^{*2})

D-59 Methods of speaker verification using formant frequency

○K. Shinomiya (Forensic Sci. Lab., Hyogo Pref. Police H.Q.)

D-60 Comparison of speaker recognition accuracy among consonants and vowels excerpted monosyllables

○T. Osanai^{*1}, K. Amino^{*1,2}, T. Kamada^{*1}, H. Makinae^{*1} (National Research Inst. of Police Sci.^{*1}, Japan Society for the Promotion of Science^{*2})

Questioned Documents (E)

Friday 18 November Hall IV (Fuyo-nishi)

10:40 – 11:13

Chairperson: M. Suzuki (Criminal Invest. Lab., Metropolitan Police Dept.)

E-01 Screening of calculation sheets using the histograms of brightness

○M. Shimoyama, K. Matsunaga, K. Kobayashi (Forensic Sci. Lab., Hyogo Pref. Police H.Q.)

E-02 Detection of the obliterated letter by the fluorescence X-rays micro mapping analysis

○Y. Nagai (Criminal Invest. Lab., Shimane Pref. Police H.Q.)

E-03 Examination for morphology of toner forming print characters

○H. Yoshino, R. Asari, S. Terasawa, N. Kojima, K. Takahashi, K. Yonemitsu (Foundation for Promotion of Material Science and Technology of Japan)

11:23 – 11:56

Chairperson: T. Izawa (Forensic Sci. Lab., Shizuoka Pref. Police H.Q.)

E-04 Development of screening method by the application of alphanumeric font name

○N. Nemoto, T. Furukawa, H. Kawamoto (Forensic Sci. Lab., Ibaraki Pref. Police H.Q.)

E-05 Font retrieval using SIFT features of printed characters

○A. Yamamoto, Y. Akao, Y. Higashikawa (National Research Inst. of Police Sci.)

E-06 Identification of newspaper fonts by template matching using GA

○T. Kamitani^{*1}, T. Kinoshita^{*1}, T. Hayashi^{*1}, R. Miyake^{*1}, M. Ueda^{*2}, S. Tanaka^{*2} (Fac. Eng., Osaka Sangyo Univ.^{*1}, Forensic Sci. Lab., Kyoto Pref. Police H.Q.^{*2})

13:00 – 13:55

Chairperson: H. Sugahara (Criminal Invest. Lab., Aichi Pref. Police H.Q.)

E-07 Improvement of character clipping system for questioned document identification – Prototype method for making character table on demand –

○Y. Taguchi (Forensic Sci. Lab., Fukuoka Pref. Police H.Q.)

E-08 Writer identification based on character geometry – the case of hiragana character-

○Y. Komori^{*1}, K. Tokiwa^{*2}, K. Fukue^{*1} (Tokai University Research and Information Center^{*1}, Forensic Sci. Lab., M.P.D.^{*2})

E-09 Writing character-size dependency in writer identification based on character geometry – the case of hiragana character-

○K. Inami^{*1}, K. Tokiwa^{*2}, K. Fukue^{*1} (Tokai University Research and Information Center^{*1}, Forensic Sci. Lab., M.P.D.^{*2})

E-10 Writer identification based on character geometry – the case of katakana character –

○M. Tamura^{*1}, K. Tokiwa^{*2}, K. Fukue^{*1} (Tokai University Research and Information Center^{*1}, Forensic Sci. Lab., M.P.D.^{*2})

E-11 Writing character-size dependency in writer identification based on character geometry – the case of katakana character –

○Y. Kouda^{*1}, K. Tokiwa^{*2}, K. Fukue^{*1} (Tokai University Research and Information Center^{*1}, Forensic Sci. Lab., M.P.D.^{*2})

14:05 – 14:49

Chairperson: K. Oshima (Criminal Invest. Lab., Okayama Pref. Police H.Q.)

E-12 Handwriting analysis by tracing handwriting track (2)

○T. Ohuchi, H. Sakakibara, H. Sugahara, N. Hasegawa (Criminal Invest. Lab., Aichi Pref. Police H.Q.)

E-13 Basic study on characters arrangement of handwritten numbers (Part2) – Evaluation by ROC –

○N. Fukada (Scientific Invest. Lab., Fukushima Pref. Police H.Q.)

E-14 Intra-individual constancy in the spacing of a signature

○Y. Seki (National Research Inst. of Police Sci.)

E-15 The identification case of disguised handwriting used for a ruler

○A. Muta, M. Tsukahara, M. Fukui (Forensic Sci. Lab., Hokkaido Pref. Police H.Q.)

15:00 – 15:55

Chairperson: N. Fukada (Scientific Invest. Lab., Fukushima Pref. Police H.Q.)

E-16 An experiment on stroke information extraction by visualizing the shape of handwriting intersections

○Y. Akao, A. Yamamoto, Y. Higashikawa (National Research Inst. of Police Sci.)

E-17 Relationship between widths of handwriting and pen-tip forces

○T. Furukawa, N. Nemoto, H. Kawamoto (Forensic Sci. Lab., Ibaraki Pref. Police H.Q.)

E-18 Comparison of the writing pressure between natural handwriting and disguised handwriting

○K. Tabata^{*1}, M. Fujii^{*2}, K. Oshima^{*3}, K. Ohi^{*4} (Criminal Invest. Lab., Aomori Pref. Police H.Q.^{*1}, Criminal Invest. Lab., Gifu Pref. Police H.Q.^{*2}, Criminal Invest. Lab., Okayama Pref. Police H.Q.^{*3}, Criminal Invest. Lab., Kagawa Pref. Police H.Q.^{*4})

E-19 Development of a simple tool for superimposing images

○S. Tanaka^{*1}, M. Ueda^{*1}, T. Kamitani^{*2} (Forensic Sci. Lab., Kyoto Pref. Police H.Q.^{*1}, Fac. Eng., Osaka Sangyo Univ.^{*2})

E-20 Effect of colored surface on examination of stamp impression

○H. Sugahara (Criminal Invest. Lab., Aichi Pref. Police H.Q.)

Forensic Psychology (F)

Thursday 17 November Hall IV (Fuyo-nishi)

13:30 – 14:14

Chairperson: *H. Nagasawa (Forensic Sci. Lab., Iwate Pref. Police H.Q.)*

- F-01 Predicting the car use in the case of serial domestic burglary
○S. Haginoya (Forensic Sci. Lab., Tochigi Pref. Police H.Q.)
- F-02 Predicting offender characteristics of serial domestic burglars from criminal behaviors
○S. Ono^{*1}, S. Gamo^{*2}, S. Haginoya^{*3}, T. Hosokawa^{*4}, R. Maehira^{*5} (Forensic Sci. Lab., Yamaguchi Pref. Police H.Q.^{*1}, Forensic Sci. Lab., Ehime Pref. Police H.Q.^{*2}, Forensic Sci. Lab., Tochigi Pref. Police H.Q.^{*3}, Forensic Sci. Lab., Shizuoka Pref. Police H.Q.^{*4}, Forensic Sci. Lab., Okinawa Pref. Police H.Q.^{*5})
- F-03 Investigating the Japanese interviewing styles within an experimental paradigm: From the perspective of the relationship focused approach
○T. Wachi, H. Kuraishi, Y. Otsuka, K. Yokota, K. Watanabe (National Research Inst. of Police Sci.)
- F-04 Crime characteristics and investigation in the Edo period (1)
○M. Kiriu (Kansai University of International Studies)

14:24 – 14:57

Chairperson: *Y. Suzuki (Forensic Sci. Lab., Wakayama Pref. Police H.Q.)*

- F-05 Effects of telling results about card test on the polygraph test
○M. Hiruma^{*1}, S. Yamamoto^{*2}, A. Osita^{*3}, K. Suzuki^{*4}, T. Koide^{*5} (Forensic Sci. Lab., Fukuoka Pref. Police H.Q.^{*1}, Forensic Sci. Lab., Hokkaido Pref. Police H.Q.^{*2}, Forensic Sci. Lab., Saga Pref. Police H.Q.^{*3}, Forensic Sci. Lab., Kanagawa Pref. Police H.Q.^{*4}, Japan Ground Self-Defense Force^{*5})
- F-06 The effects of sleeping hours and sleepiness on polygraph test
○T. Otsuka, M. Mizutani (Forensic Sci. Lab., Hyogo Pref. Police H.Q.)
- F-07 Applicability of pulse arrival time in concealed information test
○K. Oshima^{*1}, M. Fujii^{*2}, M. Takeuchi^{*2} (Criminal Invest. Lab., Okayama Pref. Police H.Q.^{*1}, Criminal Invest. Lab., Gifu Pref. Police H.Q.^{*2})

15:07 – 15:40

Chairperson: *I. Matsuda (National Research Inst. of Police Sci.)*

- F-08 Bayesian estimates for within-individual standardization on the Concealed Information Test
○Y. Shibuya (Forensic Sci. Lab., Tottori Pref. Police H.Q.)
- F-09 Examination of respiratory movement measured by a clear unit of the length
○S. Mimura^{*1}, Y. Ichikawa^{*2}, K. Nagatomi^{*3}, A. Yoda^{*2}, R. Kuga^{*2} (Osaka Sangyo Univ.^{*1}, Nihon Univ.^{*2}, Graduate School of Nihon Univ.^{*3})
- F-10 Effects of orienting instruction on physiological responses to memory recognition
○A. Bitoh (Forensic Sci. Lab., Nara Pref. Police H.Q.)

Crime Scene Identification (G)

Thursday 17 November Hall IV (Fuyo-nishi)

09:00 – 09:44

Chairperson: *K. Tsukada (Forensic Sci. Lab., Nagano Pref. Police H.Q.)*

G-01 Search and rescue dog activities in the eastern Japan great earthquake disaster

○R. Iwamoto (Kitatouhoku Search and Rescue Dog Team)

G-02 About development of the data file for body identification at the time of a large-scale disaster

○K. Azuma, Y. Unno, Y. Watanabe, T. Iizuka, T. Kato (Scientific Invest. Lab., Fukushima Pref. Police H.Q.)

G-03 Development of image processing software for investigation support

○K. Taya (Forensic Sci. Lab., Kyoto Pref. Police H.Q.)

G-04 Development of luminol package for criminal identification

○M. Nakata^{*1}, R. Hisazumi^{*1}, T. Funakoshi^{*2}, K. Kikutani^{*2}, M. Katto^{*3} (Forensic Sci. Lab., Miyazaki Pref. Police H.Q.^{*1}, Wako Pure Chemical Industries, Ltd.^{*2}, Center for Collaborative Research & Community Cooperation, University of Miyazaki^{*3})

09:54 – 10:27

Chairperson: *K. Shimizu (Forensic Sci. Lab., Miyazaki Pref. Police H.Q.)*

G-05 Study for characterization of novel presumptive test reagent, “Hemascein”

○K. Yamagishi^{*1}, K. Tsukada^{*2}, A. Katoh^{*1}, Y. Shiozawa^{*1}, M. Ichioka^{*1} (1st Mobile Criminal Identification Unit, Criminal Identification Div., Nagano Pref. Police H.Q.^{*1}, Criminal Invest. Lab., Nagano Pref. Police H.Q.^{*2})

G-06 The effect of preservatives on prevention against putrefaction of forensic DNA samples

○A. Matsumura^{*1}, K. Iyama^{*2}, N. Araki^{*1} (Forensic Sci. Lab., Yamaguchi Pref. Police H.Q.^{*1}, Identification Div., Yamaguchi Pref. Police H.Q.^{*2})

G-07 The simple staining method of oil at the scene

○S. Sugiyama^{*1}, K. Itoh^{*2}, T. Unoki^{*3} (Forensic Sci. Lab., Fukushima Pref. Police H.Q.^{*1}, Shirakawa Police Station^{*2}, Orient Chemical Industries Co., Ltd.^{*3})