【Scientific Program】

Poster Session (Room A Small Hall 5F: December 1, 9:30～12:00)

Chair　Toshiro Matumura (9:30～10:47)

P-01　Field Survey on the Readily Vaporizable Pyrethroids, Transfluthrin and Metofluthrin, in the Residential Houses

○Toshiko Tanaka-Kagawa[1)], Yoko Furukawa[1)], Kiyomi Tsuji[2)], Rumiko Hayashi[3)], Hiroko Tanaka[4)], Susumu Ohkawara[5)], Masanori Ando[5)] and Tetsuji Nishimura[1)], Hideto Jinno[1)]

1)National Institute of Health Sciences, 2)Kanagawa Prefectural Institute of Public Health, 3)Aichi Prefectural Institute of Public Health, 4)Shiga Prefectural Institute of Public Health, 5)Musashino University

P-02　Study on the Detoxification Metabolism of Pyrethroid Insecticides in Human

○Hideto Jinno[1)], Toshiko Tanaka-Kagawa[1)], Yoko Furukawa[1)], Tetsuji Nishimura[1)], Nobumitsu Hanioka[2)], Shizuo Narimatsu[2)]

1)National Institute of Health Sciences,

2)Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama University

P-03　Organophosphorus insecticide residues in polished rice stored in houses as an indicator of indoor pollution

○Shoko Fukuda, Takana Nakamura, Yuko Fujita, Sayuri Moriwaki, Saori Yasuda, kaeko Kijima, Seisaku Yoshida

Department of Food Science and Nutrition, School of Human Environmental Sciences, Mukogawa Women's University

P-04　Exposure Analysis of Dihaloacetonitriles In the Public Bath Facilities

○Nao Okuaki[1),2)], Hideto Jinno[1)], Toshiko Tanaka-Kagawa[1)], Yoko Furukawa[1)], Susumu Ohkawara[3)], Atsuko Takahashi[4)], Masanori Ando[3)] and Tetsuji Nishimura[1)]

1)National Institute of Health Sciences, 2)Tokyo College of Medico-Pharmaco Technology, 3)Musashino University, 4)Hatano Research Institute, Food and Drug Safety Center

P-05 Investigation of Chemicals in Specific Building.

○Minae Aoki[1)], Naoki Kunugita[1)], Yukio Akiyama[1)], Yuko Yamano[2)], Takahiko Kato[3)], Iwao Uchiyama[4)], Keiichi Arashidani[1)]

1)School of Heath Sciences, University of Occupational and Environmental Health, Japan., 2)Syowa University., 3)Kumamoto University., 4)Kyoto University.

P-06 A study on sampling2 indoor air quality in wall paper construction of housing renovation

○Mamoru kashima[1)], Katsuyoku Matsuura[1)], Masaya Kadono[2)], Shingo Yanai[2)], Youichi Yamashita[3)], Toshirou Matsumura[4)]

1)Tokyo Institute, Polytechnic University, 2)Tokyo kenbikyo-In Foundation, 3)Wallcaverings Association of Japan, 4)Nippon University

P-07 Trend of Indoor Air Chemicals detected with higher concentrations from newly built houses

○Aya Onuki[1)], Ikue Saito[1)], Takahiro Tada[1)], Masao Fukuda[1)], Kumiko Yaguchi[1)], Akio Ogata[1)], Emiko Todaka[2)], Hiroko Nakaoka[2)], Chisato Mori[2)]

1)Tokyo Metropolitan Institute of Public Health, 2)Center for Environment, Health and Field Sciences, Chiba University

P-08 Seasonal Change and Rapid Increase by Furniture of Indoor Air Quality in the Laboratory House in Chemiless-Town

○Hiroko NAKAOKA[1),2),3)], Ikue SAITOU[4)], Aya ONUKI[4)], Emiko TODAKA[2),3)], Chisato MORI[1),2),3)]

1)Department of Bioenvironmental Medicine, Graduate School of Medicine, Chiba University, 2)Center for Environment, Health and Field Sciences, Chiba University, 3)NPO Chemilessk-town Association, 4)Tokyo Metropolitan Institute of Public Health

P-09 Measurements by small chamber test method of 1-methy-2-pyrrolidone and texanol emitted from water-based paints used in a elementary school where sick house syndrome broke out

○Satoshi Kobayashi[1)], Hiroshi Akitsu[2)], Shinichi Isaji[2)], Kazuo Jin[1)]

1)Hokkaido Institute of Public Health, 2)Hokkaido Forest Product Institute

P-10 Study on mechanism of particle formation of formate species in indoor environment

○Ayako Ohno[1)], Yoshika Sekine[1)], Kunitoshi Matsunobu[2)], Naoto Miyashita[2)]

1)Tokai University, 2)Gastec Corporation

P-11 Increase and the control of the concentration level of chloroethane and pentane volatile from insulating materials of floor heating system

○Emiko TODAKA[1),2),3)], Ikue SAITOU[4)], Aya ONUKI[4)], Hiroko NAKAOKA[1),2),3)], Chisato MORI[1),2),3)]

1)Center for Environment, Health and Field Sciences, Chiba University,

2)NPO Chemiless-town Association,

3)Department of Bioenvironment, Graduate School of Medicine, Chiba University,

4)Tokyo Metropolitan Institute of Public Health

P-12 An Estimation method for indoor air concentration of p-dichlorobenzene by measurement of those in dust

○Sumio Goto[1)], Kimika Kaneshima[1)], Chieko Suzuki[1)], Yukihiko Takagi[1)], Osamu Endo[1)], Daisuke Nakajima[2)], Hajime Furudate[3)], Tsuneaki Maeda[4)]

1)Azabu University, 2)National Institute for Environmental Studies,

3)Nishikawa Keisoku Co., Ltd, 4)Advanced Industrial Science and Technology

P-13 Research on the indoor aldehydes concentration at schoolrooms

○Kazunari KUME[1)], Lin Lin g [2)], Hitoshi Fukazawa[1)]

1)Shizuoka Institute of Environment and Hygiene,

2)Graduate School of Nutritional and Environmental Sciences, University of Shizuoka

P-14 Simulation of Moth Repellent Levels in the Residential Environment: Ventilation Rate of Clothes Storage Boxes

○Yoko Furukawa[1)], Toshiko Tanaka-Kagawa[1)], Kiyomi Tsuji[2)], Rumiko Hayashi[3)], Hiroko Tanaka[4)] , Tetsuji Nishimura[1)] and Hideto Jinno[1)]

1)National Institute of Health Sciences, 2)Kanagawa Prefectural Institute of Public Health,

3)Aichi Prefectural Institute of Public Health, 4)Shiga Prefectural Institute of Public Health

P-15 Invesigation of Air Quality inside Taxi

○Keiichi Arashidani[1)], Manami Iwamatu[1)], Ryuuji Manabe[2)], Naoki Kunugita[1)], Yukio Akiyama[1)]

1)School of Health Sciences, University of Occupational and Environmental Health, Japan,

2)University of Miyazaki

P-16 Estimation of Absorption of Hydrocarbons Diffusing from Interior Materials in an Automobile Cabin by Inhalation Pharmacokinetic Analysis in Rats.

○Toshiaki YOSHIDA
Osaka Prefectural Institute of Public Health

P-17 Comparison of Indoor Air pollution levels Between Japan and Korea.

○Fuyoko Bori, Naoki Kunugita, Yukio Akiyama, Keiichi Arashidani.
School of Health Sciences, University of Occupational and Environmental Health, Japan

P-18 Countermeasures for reduction of indoor air pollution by chemicals

○Toshiyuki HORIIKE[1)], Kazunari KUME[2)], Nobuyuki HONMA[3)], Shouhei YAMASHITA[2)],
1)Pharmaceutical Affairs Office,Division of Medicine and Health,Department of Health and Welfare, Shizuoka Prefecture, 2)Institute of Environment and Hygiene,Shizuoka Prefecture,
3)Industrial Reseach Institute,Shizuoka Prefecture

P-19 The reduction of toluene concentration of a classroom in Hokkaido

○Nobuhiro Asakura[1)], Hiroshi Akitsu[1)], Masaki Suzuki[1)], Shinichi Isaji[1)], Sayaka Murata[2)], Satoshi Kobayashi[3)]
1)Hokkaido Forest Products Research Institute,
2)Hokkaido Northern Regional Building Research Institute,
3)Hokkaido Institute of Public Health

P-20 Indoor air pollution by ammonia and its removal in the museum

○Ro Toshitami[1)], Sano Chie[1)], Uchiro Hiroyuki[2)], Seko Shigeki[3)], Amano Kentarou[3)]
1)National Research Institute for Cultural Properties,Tokyo,
2)Pola Museum of Art, 3)Takenaka Corporation

P-21 Photocatalytic decomposition of volatile organic compounds and generation of by products.

○Shinichi Isaji, Hiroshi Akitsu
Hokkaido Forest Products Reserch Institute

P-22 Verification of effect of indoor air pollutant reduction using room air cleaner

○Kiyomi Tsuji[1)], Hitoshi Uemura[1)], Yuichi Fushiwaki[1)], Hideto Jinno[2)], Daisuke Nakajima[3)], Sumio Goto[4)], Kazuo Hasegawa[1)],
1)Kanagawa Prefectural Institute of Public Health, 2)National institute of Health Sciences,
3)National Institute for Environmental Studies, 4)Azabu University

P-23 Formaldehyde absorption of pot plant for indoor gardening

○Masaki Suzuki[1)], Nobuhiro Asakura[1)], Hiroshi Akitsu[1)], Masao Ubukata[2)], Ryoko Suzuki[2)]

1)Hokkaido Forest Products Research Institute,

2)Hokkaido Ornamental Plants and Vegetables Research Center

P-24 Influence of diatomaceous earth wall on concentration of formaldehyde

○Koichi HARADA[1)], Osamu MATSUSHITA[2)], Chang-Nian WEI[2)], Keiko MINAMOTO[2)], Michiko YOSHIDA[2)], Atsushi UEDA[3)], Kunio HARA[3)]. Mihoko MORI[4)]

1)Department of Microbiology and Environmental Chemistry, School of Health Sciences, Kumamoto University, 2)Division of Public Policy and Society, Graduate School of Social and Cultural Sciences, Kumamoto University, 3)Department of Preventive and Environmental Medicine, Graduate School of Medical and Pharmaceutical Sciences, Kumamoto University, 4)Department of Environmental Medicine, School of Medicine, Kurume University

Chair Kazunari Kume (10:47～11:55)

P-25 Surveillance study on TVOC concentration in classroom

○Michitada KOHNO[1)], Michiyasu KOHNO[1)], Yasuhiro SETOGUCHI[2)], Kunitoshi MATSUNOBU[3)], Toshiaki TANAKA[4)], Satoru MURAMATSU[1)]

1)Riontech Inc., 2)Figaro Engineering Inc., 3)Gastec Corporation.,

4)Japanese school pharmacist society

P-26 The Analysis of Volatile Compounds Released by Fungi Collected from the Air of Railway Stations by SPME-GCMS Method

○Takashi Kyotani[1)], Tamami Kawasaki[1)], Tomoyoshi Ushiogi[1)], Noritoshi Ri[2)] and Toshio Hayakawa[1)]

1)Biotechnology, Railway Technical Research Institute;,

2)Hygiene & Microbiology Research Center

P-27 The Research on the VOC evaluation of In-Vehicle Materials.

○Ken'ichi Koga, Toshihiro Urakawa

Fukuoka industrial technology center

P-28 Indoor air quality monitoring via IT network- Colorimetric monitoring of formaldehyde in indoor environment using image transmission of mobile phone -

○Risa Katori[1)], Yoshika Sekine[1)], Hiroki Kashiwagi[2)]

1)Graduate School of Science, Tokai University,

2)Department of Chemistry, School of Science, Tokai University

P-29 Measurement of ventilation rate of household refrigerators by tracer gases

○Shinichiro Murata[1)], Yoshika Sekine[1)], Michio Butsugan[2)]

1)School of Science, Tokai University, 2)Hitachi Chemical Co., Ltd.

P-30 The evaluation test of the TVOC monitor(FID system) and its application

○Toshiro MATSUMURA[1)], Yasuhiro SETOGUCHI[2)], Tomohiro KAWAGUCHI[2)], Takao NISHIMURA[2)], Takashi URITA[2)], Yukitoki MORITA[1)], Akio SAKURAGAWA[1)]

1)Nihon University, College of Science and Technology, 2)Figaro Engineering Inc.,

P-31 Study of AERO C2 system for organic compounds in indoor air

○Akira Suzuki[1)], Tsutoshi Imanaka[1)], Kenji Akatani[1)], Kazuyuki Ishii[1)], Shigeru Ogawa[1)], Toshiro Matsumura[2)]

1)GL Sciences Inc., 2)Nihon University

P-32 Analytical Method for Antimicrobial Agent; 2-chloroacetamide (CAA)

○Harunobu Nakashima[1)], Daisuke Nakajima[2)], Sumio Goto[3)], Masa-aki Kaniwa[4)]

1)Osaka Prefectural Institute of Public Health, 2)National Institute for Environmental Studies, 3)Azabu University, 4)National Institute of Health Sciences

P-33 Determination of polarity compounds by canister system

○Kazuyuki Ishii[1)], Tsutoshi Imanaka[1)], Kenji Akatani[1)], Akira Suzuki[1)], Shigeru Ogawa[1)], Toshiro MATSUMURA[2)]

1)GL Sciences Inc., 2)Nihon Uriversity

P-34 Development for New collection tubes for VOCs

○YOSHIHIRO SUZUKI[1)], JUNKO HIRANO[1)], MICHIKO KOYANO[2)], TUNEO SAITO[1)], HIROMI KOYAMA[1)]

1)Sibata Scientific Technology co. ltd., 2)National Institute of Public Health

P-35 Developmentof TVOC detector usinga MEMS sensor (Part3)

Humiharu KATSUMATA*, Masataka KANO, ○Kazuhiro TOYODA*, Takahiko SASAHARA, Tatsuo SUNAYAMA

(*Member)

Yazaki Co.Ltd.

P-36 Comparative study of the genus Aspergillus of collection from museum

○Kazuhiro Hashimoto[1),3)], Azumi Fukuda[1),2)], Yuji Kawakami[1),2)]

1)FCG Research Institute,Inc, 2)Istituto per il restauro “L'AMBIENTE”,

3)Graduate School of Environmental Health, Azabu University

P-37 The climate suitable for the growth of a fungus Aspergillus fumigatus

○Keiko Abe

Institute of Environmental Biology

P-38 Indoor Air Analysis for Monitoring Biological Activity in Kitora Tumulus

○Chie SANO and Hajime MABUCHI

National Research Institute for Culutral Properties, Tokyo

P-39 Research of Provision for Iatrogenic Infection on Oral Implant Therapy Analytical Evaluation of Operative Air-purifying Unit (Part 2)

○M NASHIMOTO[1)], ○Y SUYAMA[2)], K ITOH[1)], H KOSHI[1)], U TUNOSUE[1)]

1)General Implant Research Center,

2)Department of Epidemiology and Public Health Tokyo Dental College

P-40 Correlation between the judgment by monitor surveys and concentrations of airborne fungi in the railway stations

○Tamami Kawasaki[1)], Takashi Kyotani[1)], Tomoyoshi Ushiogi[1)], Yasuhiko Izumi[2)], Kouhei Fujinami[3)], Toshio Hayakawa[1)]

1)Railmay Technical Research Institute, Biotechnology

2)Railmay Technical Research Institute, Architecture

3)Railmay Technical Research Institute, Ergonomics laboratory

P-41 Survey of drifting microbes by water in the indoor environment, and the measures against the microbes

○Saitou Satoshi

Takenaka Corporation

P-42 Development of a micro-scale chamber for estimating chemical concentrations in indoor air

○Hiroya SHINOZAKI, Haruyuki HIGASHINO
National Institute of Advanced Industrial Science and Technology

P-43 Influence of indoor particulate matter on the bioluminescence of marine bacterium vibrio fischeri

○Shiro Ikeda[1)], Yoshika Sekine[1)], Masafumi Oikawa[2)]
1)Graduate School of Science, Tokai University,
2)Department of Chemistry, School of Science, Tokai University

P-44 Research of subjective symptom and indoor air quality of MCS and/or sick house syndrome patients.

○Tamami SUZUKI[1)], Yoshiko BAI[1)], Misaki MATSUSHITA[1)], Masao INOUE[2)]
1)Faculty of health science,Gumma PAZ College,
2)NPO Indoor Air Quality Survey Association,technical manager

P-45 Effects of developmental exposure to toluene on testosterone secretion and apoptotic cell death in the brain

Shinji Tsukahara, Yoshiko Kuroda, ○Daisuke Nakajima, Shiho Kageyama and Hidekazu Fujimaki
National Institute for Environmental Studies

Report from subcommittee

SUB-1 The report of activity progress from a chemical substance subcommittee-The measurement result of personal exposure for TVOC-

○Toshiro MATSUMURA[1)], Yukitoki MORITA[1)], Akio SAKURAGAWA[1)], Ikue SAITO[2)],
Yasuhiro SETOGUCHI[3)], Tomohiro KAWAGUCHI[3)], Tsutoshi IMANAKA[4)],
Kunitoshi MATSUNOBU[5)], Shintaro TANAKA[6)], Yoichi SITANAKA[7)], Kenji OHTUKA[8)],
Eiji OSADA[9)], Kazukiyo KUMAGAI[10)]
1)Nihon University, College of Science and Technology, 2)Tokyo Metro-poritan Institute of Public Health,
3)Figaro Engineering Inc., 4)GL Sciences Inc., 5)Gastec Corporation,
6)Industrial Hygien DeviceCalibration. Inc., 7)JFE Techno-Research Corporation,
8)TakamizawaAnalytical Chemistry Research Institute Inc., 9)TOA・DKK Corporation,
10)Institute of Environmental System Studies, Graduate School of Frontir Sciences, The Tokyo University

Oral Session(Room G Exhibition Hall 1F: December 2, 9:30～11:00, 14:00～16:00)

Chair　Ikue Saitou (9:30～11:00)

G-01　A Comparative study of indoor aldehydes concentrations between in China and in Japan

○Masashi Kamoi[1)], Takeshi Ohura[1)], Takashi Amagai[1)], Mili Weng, Zhu Lizhong[2)]

1)Graduate School of Nutritional Department of Environmental Science,University of Shizuoka,

2)Department of Environmental Science, Zhejiang University

G-02　Emission Source of Pentane in a Newly Built House

○Ikue SAITOU[1)],　Aya ONUKI[1)], Kumiko YAGUCHI[1)], Akio OGATA[1)], Emiko TODAKA[2)],

Hiroko NAKAOKA[2)], Chisato MORI[2)]

1)Tokyo Metropolitan Institute of Public Health,

2)Center for Environment, Health and Field Sciences, Chiba University

G-03　Investigation of Styrene from Hecycling Polystyrene(PS)

○Yo Yamakawa[1)], Kazukiyo KUMAGI[1)], Miyuki NOGUCHI[1)], Atsushi MIZUKOSHI[1)],

Yukio YANAGISAWA[1)]

1)Graduate School of Frontier Sciences, The University of Tokyo

G-04　Field Survey on the Indoor Air Concentration of Prallethrin in the Residential Houses

○Rumiko HAYASHI[1)], Hideto JINNO[2)], Toshiko TANAKA-KAGAWA[2)], Yoko FURUKAWA[2)],

Kiyomi TSUJI[3)], Hiroko TANAKA[4)], Toru KAZUMA[5)], Atsuhiko MUTO[5)],

Tetsuji NISHIMURA[2)], Tsutomu OHNO[1)]

1)Aichi Prefectural Institute of Public Health, 2)National Institute of Health Sciences,

3)Kanagawa Prefectural Institute of Public Health, 4)Shiga Prefectural Institute of Public Health,

5)Japan Environmental Sanitation Center

G-05 Evaluation of Indoor Air Quality by Means of Ratio that Divided Chemical Concentration by Odor Threshold Value

○Hiroshi SETO[1),5)] Shun-ichi MATSUDA[2),5)], Ikue SAITOU[3)], Aya ONUKI[3)],
Emiko TODAKA[4),5)], Hiroko NAKAOKA[4),5)], Chisato MORI[4),5)]
1)Tokyo Kenbikyo-in Foundation, 2)YKK AP Inc.,
3)Tokyo Metropolitan Institute of Public Health,
4)Center for Environment, Health and Field Sciences, Chiba University,
5)NPO Chemiless-town Association

G-06 Perpendicular Distribution of Chemical Substances and Particulated Matters in a Kindergarten.

○Yasuto Matsui, Nobumitsu Sakai, Tomohisa Urabe, Hiroshi Okuda, Tsuguo Mizoguchi, Iwao Uchiyama
Institute of Engineering Innovation, The University of Tokyo

Chair Naohide Shinohara (14:00～15:00)

G-11 Measurement method of VOC emission rate from adhesive by using of material diffusion

○Shin-ichi Tanabe, Hoon Kim, Hisato Nakamura
Department of Architecture, Waseda University

G-12 Determination of Acrolein by DNPH derivatization and HPLC

○Miyuki Noguchi, Takako Yamaki, Kazukiyo Kumagai and Yukio Yanagisawa
Graduate School of Frontier Sciences, The University of Tokyo

G-13 A development study on test methods for represents of chemical substance emission characteristic during reform action in buildings (Part 2)

Atsuo NOZAKI[1)], ○Yuki YAMASHITA[1)], Toshifumi OGURA[2)], Motoya HAYASHI[3)],
Yasunori NARITA[4)], Haruki OSAWA[5)]
1)Graduate school of health and environment sciences, Tohoku bunka gakuen university,
2)Living and cultural science, 3)Miyagi gakuin women's university
4)Indoor environmental technology research, 5)National Institute of public health

G-14 Evaluation of the Odor Emitted from Electronic Products by Large Chamber Method

○Yoji OHSHIMA, Eiko OKAMURA, Tatsuo TAKAHARA, Tatsuo NONAKA
Sumika Chemincal Analysis Service, Ltd

Chair　Miyuki Noguchi (15:00～16:00)

G-15　Development of the small size air suction pump for indoor environmental measurement

○Nobuyuki Sanari, Kentaro Kojima, Isao Hiyama, Tsuneo Saito, Hiromi Koyama
Sibata Scientific Technology, LTD.

G-16　Development of Biosensor through Image Analysis for House Dust Mite Activity

○Makoto Yamaguchi, Kazuyuki Tomioka, Keigo Takeuchi
Shimizu Corporation

G-17　application of passive colometric emission sensor (PECS) for the measurement of indoor/outdoor concentration of formaldehyde

○Naohide SHINOHARA[1)], Masato OHNISHI[2)], Atsushi Mizukoshi[3)], Yukio YANAGISAWA[3)]
1)National Institute of Advanced Industrial Science and Technology (AIST), Research Institute of Scien,
2)Nippon Living Co., Ltd, 3)University of Tokyo

G-18　Continuous generation of calibration gas for formaldehyde with permeation tube method

○Reiji Aoyagi, Kunitoshi Matsunobu
Gastec Corporation

Oral Session (Room C Seminar Room #401 4F: December 2, 9:30～11:00, 14:00～16:00)

Chair　Kiyomi Tsuji (9:30～11:00)

C-01　Studies on the Durability of Chemical Substance Removal Performance on Room Air Cleaner (Pert2)

Atsuo NOZAKI[1)], ○Masaya SHINOTSUKA[1)], Haruki SAKURABA[1)], Yusuke ICHIJO[2)]

1)Graduate school of health and environmental sciences, Tohoku bunka gakuen university,

2)Indoor Environmental Technology Research Association

C-02　Studies on Durability of Chemical Substance Removal Performance on Room Air Cleaners (Part 3)

○Yusuke ICHIJO[1)], Atsuo NOZAI[1)], Masaya SHINOTSUKA[1)], Haruki SAKURABA[2)]

1)Graduate school of health and environment sciences, Tohoku bunka gakuen university,

2)Indoor environment technology research association

C-03　A Study on Gaseous Contaminants and Odor Removal Performance of Room Air Cleaners

Atsuo NOZAKI[1)], ○Haruki SAKURABA[1)], Masaya SHINOTSUKA[1)], Yusuke ICHIJO[2)], Susumu YOSHIZAWA[3)]

1)Graduate school of health and environment sciences, Tohoku bunka gakuen university,

2)Indoor environmental technology research association

C-04　Studies on the countermeasure technology against indoor chemical substance pollutions by using a control technique of indoor humidity (Part 1) Examinations of an experimental method

Atsuo Nozaki[1)], ○Yasunori Narita[2)], Yoshio Okamoto[3)], Atsushi Matsubara[3)], Kenkichi Kagawa[3)]

1)Graduate school of health and environment sciences, Tohoku Bunka Gakuen University,

2)Life Science Research Laboratory Co., Ltd, 3)Daikin industries, Ltd.

C-05　Studies on the countermeasure technology against indoor chemical substance pollutions by using a control technique of indoor humidity (Part 2) Effect evaluation in real environmental condition

Atsuo NOZAKI[1)], Yasuaki NARITA[2)] ,○Yoshio OKAMOTO[3)], Kenkichi KAGAWA[3)], Atushi MATUBARA[3)]

1)Tohoku Bunka Gakuen Univ., 2)Life science Research Laboratory Co.,Ltd.,

3)DAIKIN Industries,Ltd.

C-06 Studies on the decay characteristics of indoor odorant concentration by using countermeasure products

Atuo NOZAKI[1)], ○Aya KIKKAWA[2)], SyungoTOKUSHIMA[3)], Noriyuki SUGIYAMA[3)]
1)Graduate school of health and environment sciences, Tohoku Bunka Gakuen University,
2)The aino institute of life science, 3)INAX Corporation

Chair Naoki Kunukita (14:00～15:00)

C-11 A Study on the Emission Rates of Chemical Substances Mitigation Technique on the Printed Matters

Atsuo NOZAKI[1)], ○Yasuhiro FUKUSHIMA[1)], Yutaka FUKUDA[2)], Yasuhiro HASHIMOTO[3)]
1)Graduate school of health and environment sciences, Tohoku bunka gakuen university,
2)Indoor environmental technology research association, 3)The aino institute of life science

C-12 Studies on the Classroom Air Pollution Caused by Educational Products and the Development of Concentration Prediction Method (Part 4) Termination of the Main Chemical Substances Emission Source from Textbooks

Atsuo NOZAKI[1)], ○Yutaka FUKUDA[1)], Yasuhiro FUKUSHIMA[1)], Yasunori NARITA[2)], Yasuhiro HASHIMOTO[3)]
1)Graduate school of health and environment sciences, Tohoku bunka gakuen university,
2)Indoor Environmental Technology Research Association, 3)The Aino institute of life science

C-13 Studies on the Classroom Air Pollution Caused by Educational Products and the Development of Concentration Prediction Method (Part 5) Emission Rates of Chemical Substances on the Sporting Goods

Atsuo NOZAKI[1)], ○Yasuhiro HASHIMOTO[2)], Yasuhiro FUKUSHIMA[1)], Yutaka FUKUDA[3)]
1)Grauate school of health and environment sciences, Tohoku bunka gakuen university,
2)The Aino institute of life science, 3)Indoor environmental technology research association

C-14 Seasonal change of indoor air chemicals of anti

○Emiko TODAKA[1),2),3)], Ikue SAITOU[4)], Aya ONUKI[4)], Hiroko NAKAOKA[1),2),3)],
Mikio ISHIKIRIYAMA[2),5)], Yukihiko KONDO[2),6)], Atsushi FUKUHARA[2),7)], Masato Hozumi[2),8)],
Chisato MORI[1),2),3)]

1)Center for Environment, Health and Field Sciences, Chiba University,
2)NPO Chemiless-town Association,
3)Department of Bioenvironment, Graduate School of Medicine, Chiba University,
4)Tokyo Metropolitan Institute of Public Health, 5)Kanto Leather Co., 6)Lonseal Corp.,
7)Itoki Corp., 8)Achilles Corp.

Chair　Yasuhiro Hashimoto (15:00～16:00)

C-15 Relationship between indoor and outdoor concentrations of airborne cedar pollens and particulate matters in a kindergarten in Isehara city

○Naomichi Yamamoto[1),2)], Miho Sakamoto[1)], Yumi Shimizu[1)], Junko Nishikawa[1)],
Hideaki Matsuki[1)]

1)School of Health Sciences, Tokai University,
2)Japan Society for the Promotion of Science (JSPS)

C-16 Instructions for Health Protection of Students in School Facilities-for Indoor Air Pollution-

○Hiroshi HIROSE, Kenichi AZUMA, Hideko ITOU, Iwao UCHIYAMA,
Toshikazu YOSHIKAWA
Study Group on Prevention for Residential Diseases

C-17 Study of the relationship between inhalation of indoor fungi and the development of intractable lung disease

○Eri Ochiai[1)], Masaru Nagayoshi[1,2)], Ayaka Sato[1)], Akira Watanabe[1),3)], Takahito Toyotome[1)],
Kazutoshi Shibuya[4)], Katsuhiko Kamei[1)]

1)Medical Mycology Research Center, Chiba University,
2)Graduate School of Medicine, Chiba University, 3)Chiba University Hospital,
4)Toho University School of Medicine

C-18 Effects of CYP2A6 genotype on urinary nicotine and its metabolites in environmental tobacco smoke exposure

○KUNUGITA Naoki[1)], YAMAGUCHI Manami[1)], AKIYAMA Yukio[1)],
KAWAMOTO Toshihiro[2)], ARASHIDANI Keiichi[1)]
1)University of Occupational and Environmental Health, Japan, School of Health Sciences,
2)University of Occupational and Environmental Health, Japan, School of Medicine, Department of Environmental Health

Oral Session (Room D Seminar Room #303 3F: December 2, 14:00～16:00)

Chair　Yoshika Sekine (14:00～15:00)

D-11　Field study on ultra fine particle concentrations in houses

○Naoki Kagi, U Yanagi and Koichi Ikeda

National Institute of Public Health

D-12　Actual Survey about Indoor Air Contamination by Microbe in Apartment House

○Satomi MATSUU[1)], Sumiyo ISHIMATSU[2)], Yuji RYU[3)]

1)Graduate School of Environmental Engineering, The University of Kitakyushu,

2)School of Health Sciences, University of Occupational and Environmental Health, Japan,

3)Faculty of Environmental Engineering, The University of Kitakyushu

D-13　Difference of indoor airborne particular and biological contamination with various scales of buildings

○Koichi Ikeda[1)], U Yanagi[1)], Naoki Kagi[1)], Naoya Nishimura[2)], Hideki Saito[3)], Keiko Saito[3)], Ryota Kamakura[3)]

1)National Institute of Public Health, 2)Shibaura Institute of Technology,

3)Building Management Education Center

D-14　Microbial contamination in individual air conditioning system

○Yanagi U[1)], Saito Hideki[2)], Saito Keiko[2)], Kamakura Ryota[2)], Sugiyama Junichi[2)], Omawari Kazuhiko[3)], Shimizu Susumu[3)]

1)National Institute of Public Health, 2)Building Management Education Center,

3)Japan Air Duct Cleaning Association

Chair　U Yanagi (15:00～15:45)

D-15　Building a healthy indoor environment employing plaster board containing Chitosan derivatives for prevention of Sick House Syndrome (1) Evaluation of formaldehyde removal performance using a small test chamber

○Mitsuru Fukuda[1)], Masumi Ideguchi[2)], Wataru Hashimura[3)], Yoshika Sekine[4)]

1)Graduate School of Science, Tokai University, 2)Sunstar Engineering Inc.,

3)PanaHome Corporation, 4)School of Science, Tokai University

D-16 Building a healthy indoor environment employing plaster board containing Chitosan derivatives for prevention of Sick House Syndrome (2) Influence of wallpaper and glue on the permeation of formaldehyde gas

○Masumi Ideguchi[1)], Wataru Hashimura[2)], Mitsuru Fukuda[3)], Yoshika Sekine[4)]

1)Sunstar Engineering Inc., 2)PanaHome Corporation,

3)Graduate School of Science, Tokai University, 4)School of Science, Tokai University

D-17 Building a healthy indoor environment employing plaster board containing Chitosan derivatives for prevention of Sick House Syndrome (3) Field tests in a model experimental house

○Wataru Hashimura[1)], Mitsuru Fukuda[2)], Masumi Ideguchi[3)], Yoshika Sekine[4)]

1)PanaHome Corporation, 2)Graduate School of Science, Tokai University,

3)Sunstar Engineering Inc., 4)School of Science, Tokai University

Oral Session (Room B Seminar Room 4F: December 2, 14:00～15:45)

Chair　Yusuke Ichijo (14:00～14:45)

B-11　Development of air filter for inactivation of influenza virus

○Yasushi Nishibori[1)], Yutaka Ogaki[1)], Takateru Mochizuki[1)], Toshihiro Ito[2)], Hiroshi Ito[2)]

1)Japan Vilene Company, Ltd.,

2)Avian Zoonosis Reserch Center, Faculty of Agriculture, Tottori Universtiy

B-12　Evaluation of the removal effect of the airborne virus on gas fan heater

○Nobuhiko Yamashita, Toshinari Momose

Energy & Technology Laboratories OSAKA GAS Co., Ltd.

B-13　VOCs adsorbing power of Akita cedar wood

○Katsumi Saitoh[1)], Takashi Kobayashi[1)], Yasuji kurimoto[2)], Shigeru Yamauchi[2)]

1)Akita Prefectural Research center for Public health and Environment,

2)Institute of Wood Technology, Akita Prefectural University

Chair　Katumi Saito (14:45～15:30)

B-14　Studies on the odorant pollution and countermeasure technology in the toilet space (Part 1) The emission rates of odorant and chemical substances from urine

○Hisato NISHINA[1)], Atsuo NOZAKI[1)], Kiyoaki HONDA[2)], Syungo TOKUSHIMA[3)], Noriyuki SUGIYAMA[3)]

1)Graduate school of health and environment sciences, Tohoku bunka gakuen university,

2)Indoor environmental technology research association, 3)INAX Corporation

B-15　Studies on the odorant pollution and countermeasure technology in the toilet space (Part 2) The emission rates of odorant and chemical substances from feces

Atsuo Nozaki[1)], Kiyoaki Honda[1)], Syungo Tokushima[2)], Noriyuki Sugiyama[2)], Hisato Nishina[3)]

1)Graduate school of health and environment sciences, Tohoku bunka gakuen university,

2)INAX corporation, 3)Indoor Environmental Technology Research Association

B-16 Studies on the odorant pollution and countermeasure technology in the toilet space (Part 3) Removal performance of toilet units for odorant

○Atsuo NOZAKI[1)], Hisato NISHINA[1)], Kiyoaki HONDA[2)], Syungo TOKUSHIMA[3)], Noriyuki SUGIYAMA[3)], Yasuhiro HASHIMOTO[4)]

1)Graduate school of health and environment sciences, Tohoku bunka gakuen university, 2)Indoor Environmental Technology Research Association, 3)INAX corporation, 4)The Aino Institure of Life Science