

International Symposium on Contamination Control

2026 Program (20260831 Tentative)

—————Day 1 (Wed.Nov.11)—————

Room A

9:30~ 9:45	Opening Ceremony The Chairperson of Organizing Committee (U Yanagi) JACA President (Shuji Fujii)
9:45~10:45	Invited Lecture 1 「Air Filter - History and Future」 Yoshio OTANI (Japan Society for the Promotion of Science, Professor Emeritus, Kanazawa University) Chairperson
10:45~11:15	Coffee break
11:15~12:15	Standard Chairperson A – 1 Correlation of Airflow Visualization, Air Velocity Measurements and Real-Time Biofluorescent Monitoring for EU GMP Annex 1 Compliance ...XX Natasa Stirn¹ and Conor Murray² ¹Slovenian Cleanroom Society, ²Irish Cleanroom Society A – 2 Doing More with Less (Air, Consumables and Resources), the Challenge in Cleanrooms of the Future – Strategies to Leverage ISO 14644 Standards in Support of a Circular Economy ...XX Conor Murray; Irish Cleanroom Society A – 3 Revision of EN 17141 and Relationship to ISO 14644 Family of Standards in Microbiological Contamination Control ...XX Conor Murray; Irish Cleanroom Society A – 4 Airtightness of the Cleanroom Envelope: VCCN Guideline 10 and VDI 2083-19 as Foundations for ISO 14644-3 ...XX Paul Joosten; Vereniging Contamination Control Nederland (VCCN)
12:15~13:30	Lunch
13:30~14:15	Cleanroom design Chairperson

	A – 5 From Air Change Rates to Source-Based Design: A New Guideline for Classifying Human Particle Emissions in Cleanrooms ...XX Paul Joosten; Vereniging Contamination Control Nederland (VCCN) A – 6 Curing Institutional Alzheimer's: A Systematic Framework for Mitigating Knowledge Decay and Process Drift in Academic Cleanrooms ...XX Burak Birkan; Koç University A – 7 The Leonardo's Last Supper Challenge. A unique Application of the Sciences for the Conservation of the Most Delicate Masterpiece in the World. ...XX Francesco Romano¹, Luca Ferrero² and Chiara Rostagno³ ¹Politecnico di Milano, ²Università Bicocca, ³Museo del Cenacolo Vinciano
14:15~14:30	Break
14:30~15:30	Chemical contamination I Chairperson A – 8 Assessment of Semi-Volatile Organic Compounds (SVOC) as Condensing Molecular Contamination (MOC) – New Highly Sensitive and Robust GC/MS Based Method and Related Case Studies ...XX Markus Keller, Claudia Breuninger, Hanne Gottschalk, Dennis Pfiz and Udo Gommel Fraunhofer IPA A – 9 Chemical Contamination Alert! SVOC-Outgassing of HEPA Filters Contaminate Severely Cleanrooms, Processed Parts and Measurement Equipment! ...XX Markus Keller, Claudia Breuninger, Hanne Gottschalk, Dennis Pfiz and Udo Gommel Fraunhofer IPA A – 10 Molecular Contamination, How to Control ...XX Philip Van Beek; Contamination Q&A A – 11 Evaluation of Chemical Contamination in Semiconductor Manufacturing Processes: Highly Sensitive Quantitative Analysis of Airborne Acidic and Basic Gaseous Components Using Solid Collection Sampler ...XX Toshihiko Abe, Yoshimi Saito, Junichi Higuchi. Mikako Omata. Yasuko Yoshida and Reiko Iikawa Sumika Chemical Analysis Service, LTD.
15:30~16:00	Coffee break

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16:00~17:00	Chemical contamination II Chairperson A – 12 Evaluation of Sulfur Dioxide Removal Performance and Controllability of an Electrolyzed-Water Air-Washer System...xx Miki Hattori, Makoto Sawara and Hideto Mikami Shinryo Corporation A – 13 Effect of CTC Value on the Acetone Adsorption and Regeneration Performance of Activated Carbon Chemical Filters ...xx Chih-Jou Hsueh, Yu-Liang Lin, Di Lin, Yi-Hui Yu and Shih-Cheng Hu National Taipei University of Technology A – 14 Semiconductors Continue to Shrink; Can Filtration Options Grow to Keep Up with AMC Control Limits? ...xx Christopher Muller¹ and Philip Naughton² ¹AAF International, ²Seika Digital Image Corporation A – 15 Management and Detection of Lithium Contamination in Semiconductor Manufacturing Clean Room ...xx Vinicius Gabriel Antunes, Virginie Enyedi, Agnes Royer, Isabelle Benas, Elise Ho, Huy Nam Tran, Vincent Fischer and Fabrice Nemouchi; CEA-Leti
, 17:30~	Banquet 5F

Room B

11:15~12:15	Recovery rate Chairperson B – 1 Measurement of Ventilation Effectiveness using Tracer Gas in Cleanrooms ...xx Shigeki Tsuchiya¹, Masanori Sasaki¹, Tomohiro Kobayashi², Haruna Yamasawa², Ryoma Sasaki² and Yota Kinoshita³ ¹SANKI ENGINEERING CO., LTD., ²The University of Osaka ³formerly of The University of Osaka B – 2 Studies on Cleanliness Recovery Test and Ventilation Performance Test Part 1: Studies on the Cleanliness Recovery Rate ...xx Yoshihide Suwa¹, Hajime Tamura², Daisuke Sugata², Chitake Karaki², Fumio Yasui² and Naoki Kagi³ ¹D.Y.S. Technology, ²Techno Ryowa Ltd., ³Institute of Science Tokyo
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	B – 3 Studies on Cleanliness Recovery Test and Ventilation Performance Test Part 2: Comparison of Local Age of Air Using Step-down and Pulse Methods ...XX Misa Etoh¹, Hajime Tamura¹, Daisuke Sugata¹, Chitake Karaki¹, Fumio Yasui¹, Naoki Kagi², Wataru Umishio², Xuanyi Zhou² and Yoshihide Suwa³ ¹Techno Ryowa Ltd., ²Institute of Science Tokyo, ³D.Y.S. Technology B – 4 Application of Ventilation Effectiveness to Cleanroom Design ...XX Takahiro Ishino, Kazuto Osawa and Kaoru Matsuzaki TONETSU Corporation
12:15~13:30	Lunch
13:30~14:15	Cleanliness Chairperson B – 5 Research on Wide-Range Cleanrooms Using Temperature-Stratified Air-Conditioning Systems (Part 1): Evaluation of Ventilation Performance Through Experiments and CFD ...XX Moriaki Iwasaki, Masanori Sasaki, Yasuhiro Higuchi and Akira Kato SANKI ENGINEERING CO., LTD. B – 6 Construction of an Energy-Efficient Cleanroom Using a Thermally Stratified Swirling Induction-Type Air Conditioning System ...XX Naoki Aizawa and Hirohide Kumagai; Takasago Thermal Engineering Co., Ltd. B – 7 Performance of Non-Unidirectional Terminal Unit Configurations in Maintaining ISO Class 4 Cleanliness During Operation ...XX Satoki Sugiyama, Takuro Fukasawa and Akio Terauchi Cambridge Filter Corporation
14:15~14:30	Coffee break
14:30~15:30	Medical facility Chairperson B – 8 Large Scale PIV to Investigate the Effects of Ceiling Returns on the Flow Recirculation in an Operation Room ...XX Omid Ali Zargar and ShihCheng Hu; National Chin Yi University of Technology

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	B – 9 Experimental Evaluation of a Multi-Mode Pressure Difference Control System for Airborne Infection Control in Hospital Environments ...XX JiHi KimMarkus, Jehyun Kim and Minki Sung; Sejong University B – 10 The Focus is on Particles – Quantifying Patient Exposure to Cardiovascular Medical Devices Using Simulated-Use Analysis Under Strictest Cleanliness Conditions ...XX Udo Gommel, Guido Kreck, Markus Rochowicz and Yvonne Holzapfel Fraunhofer IPA B – 11 Design of a Dual-Control Air Conditioning System for Enhanced Comfort and Cleanliness in Operating Rooms ...XX Yoko Yamada¹, Naofumi Imaida¹ and Naoki Kagi² ¹Shimizu corporation, ²Institute of Science Tokyo
15:30~16:00	Coffee break
16:00~16:45	Decontamination Chairperson B – 12 Mass Transfer–Driven Reduction of EO and ECH Residues: Performance Evaluation of Desorption Chambers in EO Sterilization ...XX Alfer Sari; Founder of Conswell® Danışmanlık Tic. Ltd. Şti. B – 13 Material Selection for Cleanroom Processing When Considering Material Transfer ...XX Renee Buthe; STERIS Life Sciences B – 14 Cleanroom Garments in ISO, GMP and EPA Environments ...XX. Jerzy Kustra and Piotr Caban; Cleanproject sp. z o. o. sp. k.
17:30~	Banquet 5F

Room A

9:00~10:00	Invited Lecture 2 「Comprehensive Environmental Monitoring Facilitates High-level Contamination Control in Aseptic Drug Production」 Dr. Martin FALKE (Vetter Pharma-Fertigung GmbH &Co. KG) Chairperson
10:00~10:30	Coffee break
10:30~11:15	Filter Chairperson A – 16 Improving Environmental Performance by Reducing Pressure Drop in Filters ...XX Takaharu Kato, Kazuya Seki and Kuren Hoshino; Nipponmuki Co., Ltd. A – 17 Impact of Much Powder Environments on Air Conditioner Indoor Units and Countermeasures ...XX Kohei Shimbe, Wataru Karatsu, Kojiro Fukuoka and Kazuya Seki Nipponmuki Co, Ltd. A – 18 Characterizing Particle Collection by Charged-Fiber Media for Air Filters ...XX Norikazu Namiki¹, Saki Ukai¹, Zen Maeno¹ and Yasuhiro Asada² ¹Kogakuin University, ²Toray Co., Ltd.
11:15~1150	Break
11:30~12:30	CFD Chairperson A – 19 The 3D Flow Field Analysis Technique Based on the Measurement ...XX Yoshihide Suwa¹, Koji Dozono² and Kenichi Nakamura² ¹D.Y.S. Technology, ²Seika Digital Image Corporation A – 20 Studies on the Hydrogen Gas Safe Application- Concept of Safe Application for Hydrogen Gas and Computer Simulations - ...XX Yoshihide Suwa¹, Kenji Yonezawa², Yoshiyuki Ono², Hiroshi Hirata², Yuichi Tabata² and Chisato Tambara²; ¹D.Y.S. Technology, ²Obayashi Corporation A – 21 Analysis of Cleanroom Cleanliness Behavior Under Different Air Shower Operational Specifications. ...XX Ryo Nagatsuka and Mamoru Okamoto; Airtech Japan, Ltd.

Day 2 (Thu.Nov.12)

	A – 22 CFD-Based Assessment of LiCl Carryover Transport and Indoor Contamination in LDAC Systems ...XX Daisuke Baba, Akane Shibusawa, Masayuki Tanino and Yoshiaki Kawakami Takasago Thermal Engineering Co., Ltd.
12:30~13:45	Lunch
13:45~15:00	Monitoring Chairperson A – 23 Beyond Flow Control: Detecting Hidden Sampling Errors in Microbial Air Monitoring ...XX Lucas Armbrecht and Corina Keller; MBV AG A – 24 Reducing Manual Variability in Passive Microbial Air Monitoring ...XX Lucas Armbrecht and Miriam Schönenberger; MBV AG A – 28 Improving Product Quality by Process Optimization, Employing Environmental Monitoring Data Analysis ...XX Frans Willem Saurwalt; Kropman Contamination Control A – 26 From Data to Decision: Why Cleanroom Monitoring Systems Fail to Drive Quality—and How to Fix It ...XX Betul Solmaz; Lighthouse Worldwide Solutions EMEA A – 27 Challenging Conventional Assumptions in Airborne Particle Sampling: Introducing a Risk-based Installation Risk Index (IRI) Aligned with ISO/TR 14644-21 ...XX Hasim Solmaz; Lighthouse Worldwide Solutions
15:00~15:15	Break
15:15~16:15	Wind/Aero Chairperson A – 28 Flow Dynamics over Cetacean-Inspired and Bird/Insect Wing-Inspired Airfoils DU 06-W-200 Applied in Vertical Axis Wind Turbines ...XX Anthony Xavier Andrade, Omid Ali Zargar, Tee Lin and Shih-Cheng Hu National Taipei University of Technology A – 29 Blades Optimization and Manufacturing for a High Efficiency Bio-Inspired Hybrid Darrieus–Savonius Wind Turbine - ...XX Yu-Siang Lin, Jui-Ching Hsieh and Omid Ali Zargar National Chin-Yi University of Technology

Day 2 (Thu. Nov. 12)

	A – 30 Distribution of CO₂ Concentrations in the “Kibo” Module of the International Space Station (ISS) ...XX Katsuhiko Shibata¹, Masahiro Saito¹, Hideaki Nagano², Maki Abe³, Toshiyuki Tomobe³ and Shinichi Kimura⁴ ¹Takasago Thermal engineering Co., Ltd., ²Tokyo City University, ³JAMSS ⁴Tokyo University of Science A – 31 Existence of Particles Induced by Atomic Oxygen from Space Use Materials in Low Earth Orbit ...XX Riyo Yamanaka¹ and Delphine Faye² ¹Japan Aerospace Exploration Agency, ²Centre National d'Etudes Spatiales
16:45~	Closing Ceremony (Room A) & Presentation for ISCC2028 Lene Blicher Olsen R3Nordic

Room B

10:30~11:15	Airflow Chairperson B – 15 Laminar Airflow and Temperature Controlled Airflow Ventilation in Operating Rooms Compared “At Rest” ...XX Remko Noor¹, Marcel Isken², Clemens Bulitta³ and Sebastian Buhl³ ¹Maximuse B.V., ²CWZ hospital, ³OTH Amberg-Weiden B – 16 Role and Importance of Integrating Airflow Viz and Biofluorescent Particle Counters in Compliance with the Latest EMA and PIC/S Annex 1 Guidance, in Grades A, B and C GMP Life Science Cleanrooms ...XX Natasa Stirn¹, Conor Murray² and Meta Resnik³ ¹Slovenian Cleanroom Society, ²Irish Cleanroom Society, ³Lek a Sandoz company B – 17 Misunderstood Cleanroom Tests: Airflow Visualization (Smoke Studies). Recovery Test, Containment Leak Test ...XX Morgan Polen; Microrite
11:15~11:30	Break
11:30~12:30	Energy Chairperson B – 18 Practical Approaches to Sustainable Cleanroom Design: Reducing Energy Consumption in Pharmaceutical Facilities...XX Seray Merve Demirli; Modular Sustainable Cleanrooms

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	B – 19 How Demand Based HVAC Systems and Adaptive Controls Can Minimize the Energy Density of Giga-Scale Dry Cleanrooms for EV and EES Battery Manufacturing Facilities ...XX Conor Murray; Irish Cleanroom Society B – 20 Sustainable Cleanroom HVAC Control ...XX Kim Hagström; Halton Oy/ LUT-University B – 21 Optimizing Cleanroom Energy Efficiency through Demand Controlled Filtration and Garment-Based Source Control ...XX Paul Joosten; Vereniging Contamination Control Nederland (VCCN)
12:30~13:45	Lunch
13:45~15:00	HVAC Chairperson
13:45~15:00	B – 22 Emission Handling from Radiologically Controlled Areas at the ESS Research Facility ...XX Anna Bieliaieva and Sara Ghatnekar Nilsson; ESS, Sweden B – 23 Effects of the Combined Fan Filter Unit and Air Transfer Fan Module Configuration Patterns on Cleanliness Recovery Performances ...XX Nanako Noguchi, Kosuke Kondo, Hisashi Hasebe, Gen Takeuchi, Takuma Takeshima, Yohei Suzuyama, Suguru Bando, Takayuki Someya and Masayuki Komatsubara Shimizu Corporation B – 24 Avoiding Contamination Control for Cleanrooms Used in Laser Research Field ...XX Razvan Silviu Stefan, Delia Tinka and Mihaela Kelemen; ELI-NP B – 25 Quantitative Assessment of ATMP Viral Vector Cross-Contamination ...XX Derek Vissers; Kropman Contamination Control B – 26 From Sensor-Based Monitoring to Closed-Loop Cleanliness Management – An Integrated Approach to Real-Time Monitoring and Control of Cleanliness-Critical Production Environments ...XX Udo Gommel, Nicolas Buechle, Viola Hoffmann, Sonja Bleibel and Fabio Arrichiello Fraunhofer IPA

Day 2 (Thu. Nov. 12)

15:30~16:00	Coffee break
15:15~16:30	IAQ Chairperson
15:15~16:30	B – 27 Seasonal Patterns of Airborne Bacterial Diversity in Indoor and Outdoor Office Environments ...XX Kenske Watanabe¹, U Yanagi¹, Naoki Kagi² and Hoon Kim³ ¹Kogakuin University, ²Institute of Science Tokyo, ³Shibaura Institute of Technology B – 28 Chemical Filtration of Indoor Volatile Organic Compounds Mitigates Allergic Diseases: Implications for Healthcare Environmental Design ...XX Kengo Tomita¹, Chiharu Ohira², Mona Amano¹, Yukiko Ota¹, Atsushi Yamada³, Riku Usui³ and Tomoki Fukuyama² ¹Shimizu Corporation, ²Azabu University, ³FUJI INDUSTRIAL CO., LTD. B – 29 A Study on Methods for Evaluating the Deodorizing Performance of Heated Toilet seats. ...XX Atsuo Nozaki^{1, 2} and Koichi Katono² ¹Tohoku Bunka Gakuen University, ²Life Science Research Laboratory B – 30 Practical Application of Certification Testing According to JEM1467 Annex C Test ...XX Atsuo Nozaki^{1, 2}, Yu Takamatsu², Koichi Katono², Yoshio Okamoto³, Shinichiro Miki⁴ and Yoshinori Nakamura⁵ ¹Tohoku Bunka Gakuen University, ²Life Science Research Laboratory ³Daikin Industries, Ltd., ⁴Panasonic Corporation, ⁵Sharp Corporation B – 31 CO₂-Based Equivalent Clean Air Metrics for Right-Sizing Ventilation with Filtration ...XX Shoichi Morimoto, Norikazu Kobayashi, Torahiko, Saeki and Yuki Takamura Shinryo Corporation
16:45~	Closing Ceremony (Room A)

Poster Session

Hall 1

Wed. Nov. 11
11:15~12:15
13:30~17:00

Thu. Nov. 12
10:30~12:30
13:45~16:30

P - 1 Numerical Investigation of Sub-Micron Particle Deposition Characteristics and Contamination Control by Electrostatic Force in Cleanroom Airflow ...XX

Joohwan Ha and Taesung Kim; Sungkyunkwan University

P - 2 A Strategy to Reduce Equipment-Induced Contamination in Semiconductor Packaging ...XX

Joonsub Park and Jeoghoon Lee; KOREATECH

P - 3 Evaluation of Wearable Fan Effects on Short-Range Respiratory Aerosol Exposure Using a Simulator ...XX

Masayuki Ogata¹, Yoshihide Yamamoto¹ and Satoshi Hori²

¹Tokyo Metropolitan University, ²Juntendo University

P - 4 Capturing and Removal of Hydrophobic Organic Gases in Water Using Oil-Assisted Fine Bubbles ...XX

Shang Chen¹, Akihiro Kaihotsu¹, Kazuhiko Sekiguchi¹ and Fumio Yasui²

¹Saitama University, Techno Ryowa LTD.

P - 5 Development of an Air Purification System Aimed at Efficiently Removing Gaseous Pollutants from Facility Environments ...XX

Atsushi Yamada¹, Kengo Tomita², Chiharu Ohira³, Riku Usui¹, Mona Amano² and Tomoki Fukuyama³

¹Fuji Industrial Co., Ltd., ²Shimizu Corporation, ³Azabu University

P - 6 Longitudinal Changes in Bacterial Flora in Wooden Houses...XX

Yoshiki Shinoda¹, U Yanagi¹, Kenichi Azuma², Naoki Kagi³, Ikuko Bamba⁴ and Takahiro Tachiki⁵

¹Kogakuin University, ²Kindai University, ³Institute of Science Tokyo

⁴Tokyo Gakugei University, ⁵University of Kochi

P - 7 A Comparative Study on Indoor Air Quality Improvement in a Plastic Greenhouse via Strategic Device Placement and Operation ...XX

Hak-Ho Nam, Su-Chang Mah and Se-Jin Yook; Hanyang university

P – 8 Development of a Smoke Duct Structure for Improving Indoor Air Quality in Indoor Meatgrilling Environments ...XX

Yong-Ho Lee, Su-Chang Mah, Hak-Ho Nam and Se-Jin Yook

Hanyang University

P – 9 Development and Optimization of a Dust removal System for Air Handling Units ...XX

Su-Chang Mah, Hak-Ho Nam and Se-Jin Yook; Hanyang University

P – 10 Optimal Operation of HRV for Acceptable Indoor Air Quality in Homes ...XX

Seung-Rim Lee, Sung-Won Cho and Jun-Seok Park; Hanyang University

P – 11 Effects of Window Opening on Indoor Air Pollutants' Level in Homes ...XX

Sung won Cho, Hanyang University