## List of Technical Papers Presented at 2020 SHASE Annual Meeting

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**A-2** The water supply basic unit based on the management record and research about the use of rainwater

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A-3 Actual Survey of Water Contamination by Bacteria in Water Storage Tank Part 4: Measurement Investigation in 2019

Satomi Matsuu et al.

- **A-4** Survey on Water Use in the Latest General Hospital Takehiko Mitsunaga et al.
- A-5 Efforts of Water-Saving on the Relations of the Amount of Toilet Bowl Washing Water and the Number of Toilet Bowl washing Survey At New Tomei Expressway Shizuoka SA Toilet

Atsushi Umayahara

**A-6** Research and investigation water circulation of laboratory by utilizing water treatment technology (Part1) Possibilities for realization of Zero water Building

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A-7 Study on Annual Simulation Method of Solar Hot Water Heating System Part 1 Preliminary Study on Calculation Model of Hot Water Storage Tank

Makoto Satoh et al.

**A-8** The effects on water saving and user satisfaction when using flow restrictors in water-saving shower heads

Kanako Toyosada et al.

**A-9** Study on Energy Use in Multiple Dwelling House and Introducing Effect of Distributed Power Systems

Naoki Furuya et al.

**A-10** Study on Space Heating Control System by Combined Heat and Power Systems in Cold Region

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**A-11** Experimental Study and Analysis Evaluation by using Self-controlled Heater for Hot Water Supply Systems. Part1, Issue and Trend of Hot Water Supply Systems, Characteristics of Self-controlled Heater and so Forth

Hitoshi Akai et al.

**A-12** Experimental Study and Analysis Evaluation by using self-controlled Heater for Hot Water Supply Systems. Part2, Experimental Summary and Analysis Evaluation

Kohei Tsuchiyama et al.

- **A-13** Estimation of the stock and future changes of water heating systems used in Japanese commercial building sector Kotone Akizawa et al.
- **A-14** Studies on Siphonic Rain Water Drainage System (Part 2) Quantification and Control of Flow Velocity and Drainage Sound and Vibration

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A-15 Studies on Siphonic RainWater Drainage System with Rain Gutter (Part 1) Flow Characteristics, Pneumatic pressure and Discharge Characteristics in Manhole

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**A-16** Study on the Combined Drainage System on the Lowest Level that Aims to Rationalize Storm Drainage System for Condominium

Ayana Fuchizaki et al.

A-17 Development of a Disposable Underwear Shredder Processing System Installed in Nursing Care Facilities, etc. (The 1th Report) Examination of Drainage Characteristics and Carrying Performance of Crushed Disposable Underwear in Horizontal Drainage Pipes Including Variation Piping.

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**A-18** Basic study on Transport Performance and the Characteristics of Drainage of Water-Saving Toilet Bowl with Movable Discharge Mechanism

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**A-19** Study on the Proposal of Simplified Prediction Method of Carrying Performance for Horizontal Drainage Pipes of Water-Saving Toilets Which Are Installed in Houses (Part 2) Applicability Evaluation of Prediction Method Using Actual Piping Model

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**A-20** Study on the technology to suppress calcified urine where a horizontal branch drainpipe where multiple urinals are installed successively (The 5th report) Verification of the effect of pre-flushing in plumbing under slab [2]

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**A-22** Development of Drainage Pipe Confluence Fitting that Improvement Carrying Performance for Water Saving Toilets Part2. The Characteristics of Drainage Performance and the Experiment of Carrying Performance

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**A-23** Study on Evaluation of Horizontal Fixture Branch System for ALC Steel Framed House Part2 The Drainage Performance Evaluation of Separate Drainage System

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**A-24** A study on repair of waste pipe system such as bathroom in existing high-rise apartment houses. Part 3. Evaluation of drainage performance in renovation of existing bathroom drain horizontal fixture branch.

Toshihiko Shinozuka et al.

A-25 A study on repair of waste pipe system such as bathroom in existing high-rise apartment houses. Part.4Evaluation of influence of washing machine drainage load on drainage performance of stack systems of existing high-rise apartment houses

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