The 10th (2011) Annual Meeting of the Japanese Society for Functional Water

Date: Oct. 22 (Sat) – 23 (Sun), 2011
Venue: Kokuyo Hall, Tokyo, Japan
President: Dr. Kunimoto Hotta (Functional Water Foundation)

PROGRAM

Oct. 22 (Sat)

8:50~9:00 Opening Remarks
Dr. K. Hotta (President, The 10th Annual Meeting of the Japanese Society for Functional Water)
Dr. M. Kohno (Vice- president of the Japanese Society for Functional Water)

9:00~9:30 Keynote Address
Reviewing the past and viewing the future of functional water
K. Hotta (Functional Water Foundation)

9:30~11:25 Session 1 : Scientific Basis of Functional Water: Metal/Plastic Deterioration

○K. Kikuchi（Department of Materials Science, The University of Shiga Prefecture）

9:50-10:03 2. Effects of Hypochlorous acid water on Metals
○K. Suzuki¹, T. Nakamura²
¹(Dairy Techno Inc., ²Food Science & Technology Institute, Morinaga Milk Industry Co.,Ltd)

10:03-10:16 3. Influence on material of the ozone and ozone water
○N. Kosaka¹, K. Ichikawa²
¹(Hamanetsu Co. Ltd., ²Ebara Jitsugyo Co. Ltd.)

10:16-10:33 4. Influence of hypochlorous acid waters on dental alloys
○H. Aoki and T. Miyasaka（The Nippon Dental University, Tokyo）

10:33-10:50 5. The use of strongly acidic electrolyzed water for blood dialysis system: Coupler disinfection and metal/plastic deterioration
○M. Arakawa, M. Yoshida, T. Ishibashi, T. Inada, H. Kobayashi, H. Oka, I. Hattori,
T. Fujisawa, K. Fujiwara & N. Tanaka（Kiyoukai Tanaka Kitanoda Hospital）

○H. Nakatani（Dept. of Biotechnology and Environmental Chemistry, Kitami Institute of Technology）

11:35~11:45 Exhibitor's briefing

11:45~13:00 Lunch

13:00~14:00 Session 2. Ozone Water （Japan Society for the Medical & Hygienic & Use of Ozone）

13:00-13:20 7. Ozone: History, properties, hazard and use
○K. Nakamuro（Faculty of Science and Engineering, Setsunan University）

○H. Murakami, A. Ueno and D. Kato
（Div. of Oral Implantology, Dept. of Gerodontontology, School of Dentistry, Aichi-gakuin University）

13:40-14:00 9. The Use of ozonated water in veterinary medicine
○N. Shimizu（Acacia Animal Clinic）
14:00〜15:05  Session 3. Public health: The East Japan Great Earthquake and Disinfectant resistant bacteria

10. Dental health support service for sufferer’s health measures at the large scale disaster:
   Utility of hypochlorous acid water for prevention of epidemics and oral health care
   ○A. Tanaka (Oral and Maxillofacial Surgery, Community Oral Health & Dental Support Office, Niigata Hospital, The Nippon Dental University)

11. Applications of functional water in the disaster area of the Great East Japan Earthquake
   1) Ozone Water: ○G. Shiota (VMC Co.,Ltd.)
   2) Slightly Acidic Hypochlorous Acid Water: ○F. Shinmyo (Saraya Co.,Ltd.)
   3) Strongly Acidic Hypochlorous Acid Water: ○H. Morozumi (Functional Water Foundation)

12. Proposal for function water supply for the disaster based on a swab test survey in the disaster area of the East Japan Great Earthquake.
   ○H. Naitou and Y. Tani (Institute for Environmental Sciences, University of Shizuoka)

15:05〜15:15  Break

15:15〜16:00  Special Lecture 1
   Topics in infections with antibiotic resistant bacteria: including effective measures for infection control and novel therapeutic strategies
   Kazuhiro Tateda (Dept. of Microbiology and Infectious Diseases, Toho University School of Medicine)

16:00〜16:10  Break

16:10〜17:55  Session 4. International exchange 1

14. Agricultural application of acidic electrolyzed water in China and some problems to be solved.
   H. Ryu (The Agricultural University of China)

15. Inactivation Effects and Future Perspectives of Slightly Acidic Electrolyzed Water
   D-H. Oh (Dept. of Food Science and Biotechnology, Kangwon National University, Korea)

16. Effect of alkaline electrolyzed water on cleansingof medical apparatus.
   Li, XingWu (Chinese Center for Disease Control)

18:15〜20:15  Technological information exchange and Mixer  (Kokuyo Multipurpose Hall)
   Speech & toast: Prof. Y. Itokawa (Honorary President of the 12th Annual Meeting of JSFW)
   Speeches: Prof. T. Yoshikawa (President of JSFW) & Invited persons from China, Korea and USA.

Oct. 23 (Sun)

8:50〜11:45  Session 5. Potable alkaline functional water

17. Exercise and alkaline electrolyzed water
   ○K. Koyama (Faculty of Education & Human Sciences, University of Yamanashi)

18. Effect of long-term ingestion of potable alkaline electrolyzed water (AEW) on anti-oxidative effects
   in vivo - Influence of dietary conditions on lipid peroxide-suppressing effects of AEW -
   ○Y. Kikuchi1, K. Yamamoto2, T. Nakagawa1,2, T. Hayakawa1,2  (Graduate School of Applied Biological Sciences, Gifu Univ.,  The United Graduate School of Agricultural Science, Gifu Univ.)
19. Protective effect of electrolyzed water with high dissolved hydrogen (H₂) on the development of cardiological syndrome by aging in Dahl Salt sensitive rat
   ○W. Zhu¹, S. Kabayama¹,², T. Mori², M. Nakayama¹,³ and S. Ito¹
   (¹Center for Advanced and Integrated Renal Science, Tohoku University, ²Medical Device, Nihon Trim Co., Ltd, ³Fukushima Medical University)

20. Analysis of the cell death induction effect of model water for electrolyzed reduced water on human promyelocytic leukemia HL-60 cells
   ○T. Hamasaki¹, H. Nakanishi², T. Yamakawa², T. Kinjyo¹, H. Yan¹, K. Teruya¹,², S. Kabayama³, S. Shirahata¹,²
   (¹Dept. of Bioscience and Biotechnology, Faculty of Agriculture, Kyushu University; ²Graduate School of Systems Life Sciences, Kyushu University; ³Nihon Trim Co., Ltd)

21. The mechanism analysis of the antioxidative effect by water containing hydrogen molecule or Pt nanoparticles
   ○Tomoya Kinjo¹, Tomohiro Yamakawa,¹ Hanxu Yan,¹ Takeki Hamasaki,² Ayumu Hosokawa,² Kiichiro Teruya¹,² Shigeru Kabayama,³ and Sanetaka Shirahata¹,²
   (¹Graduate School of Systems Life Sciences, Kyushu University, ²Dept.of Bioscience and Biotechnology, Faculty of Agriculture, Kyushu University, ³Nihon Trim Co., Ltd.)

22. Protective effects of hydrogen-saturated alkaline electrolyzed water against hippocampal oxidative stress and learning and memory deficits in senescence-accelerated mice
   ○M. Kiuchi¹, H. Murayama¹, C. Aiba¹, B. Hang², M. Yamakita¹, D. Ando³, Y. Tanaka³, Y. Suihara ³,K. Hotta³, K. Koyama³
   (¹Graduate School of Medicine and Engineering, University of Yamanashi, ²Graduate School of Education, University of Yamanashi, ³Yamanashi Prefectural University, ⁴National Defense Academy, ⁵Panasonic Electric Works Co., Ltd, ⁶Functional Water Foundation, ⁷Faculty of Education & Human Sciences, University of Yamanashi)

23. Ameliorating effects of the supplementation of alkaline reduced water on the progression of diet-induced obesity in C57BL/6 Mice
   K-J. Lee (Wonju College of Medicine, Yonsei University, Korea)

24. Functional analysis of potable alkaline electrolyzed water at the cellular level
   R. Takahashi (Dept. of Pharmacotherapeutics, Faculty of Pharmaceutical Sciences, Doshisha Women’s College of Liberal Arts)

   T. Tsuru (Pediatric Surgery, St. Mary's Hospital)

26. The use of electrolyzed water (Denkaisui) on dialysis therapy
   R. Akagi, H. Yamamoto, N. Tanaka (Hojo Tanaka Hospital)

27. Disinfection of endoscope using ozone water
   Y. Kamase and T. Urano (IHI Shibaura Machinery Corporation)
14:00～15:03  Session 7. Evaluation of slightly acidic electrolyzed water for dental use
(A denkaisui workshop at Functional Water Foundation)

14:00-14:03  Introductory remarks
K. Hotta (Functional Water Foundation)

14:03-14:17  28. Trends in the use and research of slightly acidic electrolyzed water in dental field.
○ H. Kawamura¹, H. Tsukagoshi² and A. Shiba³ (¹The Nippon Dental University School of Dentistry and ² Showa University School of Dentistry)

14:17-14:35  29. Effects of slightly acidic electrolyzed water on oral pathogens and human gingival fibroblasts.
○ K. Ito¹, T. Nakamura², H. Oda², S. Sato², T. Yaejima³, T. Nakamura³, K. Shin³, M. Tomita⁴ (¹Nihon University School Dentistry, ²The Nippon Dental University School of Life Dentistry at Niigata, ³Morinaga Milk Industry Co.Ltd., ⁴Daity Techno Inc.)

14:35-14:49  30. The antibacterial effect of slightly acidic electrolyzed water on facial skin and oral mucosa
○ T. Maida¹, O. Uehara¹, O. Tanaka¹, H. Miyakawa¹, Y. Konishi¹, T. Kawakami¹, F. Nakazawa¹ (¹School of Dentistry, Health Sciences University of Hokkaido, ²Bioimplantcenter)

14:49-15:03  31. The decontamination effect of slightly electrolyzed water on a dental unit water line.
○ T. Ozawa, M. Nakano and M. Ikeno
(Dep. of Periodontics and Endodontics, Tsurumi University, School of Dental Medicine)

15:03～15:18  Break

15 : 18—16 : 20  Session 8. Basic studies on functional water

○ K. Umimoto, S. Nagata
(Dep of Biomedical Engineering, Osaka Electro-Communication University)

15:32-15:46  33. The relations of the dissolved H₂ and the sterilization byproduct by the electrolysis of the water
○ Z. Nishi, M. Takahara, M. Nakanishi (TOHZAI Chemical Industry Co. Ltd.)

15:46-16:00  34. Bactericidal and Fungicidal Activity of Electrolyzed Tap Water against Environmental Microbes
○ M. Watanabe, Y. Kodama, A. Takeshita and Y. Moriyama (TOTO LTD.)

16:00-16:20  35. Toward the standardization of functional water: the standard method for anti-bacterial activity/Standardization Committee (Japanese Society for Functional Water)

16:20～16:30  Break

16:30～17:55  Session 9. International exchange

16:30-16:55  36. Trends in application and regulation of hypochlorous acid water in Korea
I-S Shin (Gangneung-Wonju National University, Korea)

16:55-17:20  37. Using Electrolyzed Water (Denkaisui) to Help Ensure Beef Safety
Yen-Con Hung (University of Georgia, USA)

17:20-17:40  38. Survey of the use of hypochlorous acid water in food sanitation field
M. Kobayashi (The Yamanashi food sanitation inspector conference)

17:40-17:55  39. Perspectives of hypochlorous acid water in food hygiene management: hygienic rinsing water
F. Shinmyo (Sanaya Co., Ltd.)

17:55～18:00  Closing remarks
K. Hotta (President, The 10th Annual Meeting of JSFW; Functional Water Foundation)
T. Hayakawa (President elect, The 11th Annual Meeting of JSFW; Prof. at Gifu University)