International Association for the Properties of Water and Steam Russian National Committee (RNC)

Report Second Half-Year of 2012- First Half-Year of 2013

- 1. RNC active participation in organization of next seminars for engineers and technology specialist from Russian power engineering companies:
 - Cycle chemistry at power plants;
 - Today technologies for cycle chemistry monitoring systems;
 - Today experience of water treatment systems operation;
 - Water treatment and cycle chemistry for combine cycle power plants.
- 2. RNC active participation at summer school "Bioenergy and biofuels" for graduate, post-graduate students and specialists at University of Mechanical Engineering (Moscow). RNC providing seminar "Water and waste water problems in biofuel production systems".
- 3. Three meetings of RNC have been held. Current problems are investigated.

Publications list

- 1. O. Egoshina. Cycle chemistry monitoring systems. MPEI Publishing House, 2013 (text book).
- 2. O. Egoshina. Engineering calculations at cycle chemistry monitoring systems. MPEI Publishing House, 2013 (text book).
- 3. K.Orlov. Basic principles of optimization of chemical and technological processes of water treatment at thermal power plants. MPEI Publishing House, 2013 (text book).
- 4. P.Gotovtsev. Waste water treatment and reuse at thermal power plants. MPEI Publishing House, 2013 (text book).
- 5. A. Alexandrov, E. Djuraeva, V. Utenkov. Heat conductivity of aqueous solution of sodium chloride. Thermal engineering 2013, No. 3. P. 36 -40
- 6. A. Alexandrov, E. Djuraeva, V. Utenkov Dynamic viscosity of aqueous solution of sodium hydroxide. Vestnik MEI 2013, No. 2. P. 22 -25
- 7. P.Gotovtsev, V.Voronov. Mathematical Modeling of Flow-Accelerated Corrosion under Single-Phase Flow Conditions. PowerPlant Chemistry 2013, 15(2)p. 105-108
- 8. P.Gotovtsev, J.Tikhomirova, E.Khizova. Mathematical Modeling of Industrial Water Systems. US-China Education Review A. May 2013, Vol. 3, No. 5, 332-338 p.76 82
- 9. P.Gotovtsev, M.Lomonosova, V.Parabin, V.Butylin. Investigation of the possibility of *Chlorella SP* flocculation by different methods. Ovchinnikov bulletin of biotechnology and physical and chemical biology.2013 V9 №1 p. 37 43
- 10. P.Gotovtsev, M.Lomonosova, V.Butylin, E. Mostova, N. Perkovskaya. Today technologies of biodiesel production. Ovchinnikov bulletin of biotechnology and physical and chemical biology.2013 V9 №3 p. 35 42
- 11. B.Larin, A.Larin, E.Kozulina, A.Kolegov. Calculation of water and steam quality and analysis of current state of drum boilers. Thermal engineering 2012, No 7 p.10 14
- 12. B.Larin, A.Larin, A.Kolegov. Determination of salts in boiler water by conductivity and pH measurements. New in Russian Power Engineering. 2012 No 4

- 13. V.Ochkov, K.Orlov, A.Ochkov, V.Znamensky, V.Chishmakova, V.Voloshuk. "Cloud" services of properties of working fluids for cooling units. Bulletin of International could academy. №2, 2013. p. 23-28
- 14. V.Ochkov, K.Orlov, E.Ivanov, A.Makushin. Calculation and visual presentation of water treatment for thermal power plant's cooling system. Thermal engineering №7, 2013, p. 10-16.
- 15. V.Ochkov, Joe K.K., Aung T.P.T. Templates for water treatment processes calculations. Water Purification, Water Treatment, Water Supply, № 6, 2013, p. 50-55.
- 16. V. Voloshchuk, V. Ochkov. Application of today information technologies for the project development of power units. Open education. № 1, 2013 p. 50-55.
- 17. V.Ochkov, K.Orlov, Joe K.K., D.Anochin. Mathematical functions for engineering calculations for water supply systems. Water supply and sewer systems. 2012. 9-10. P.68-74.
- 18. A.Ryzhenkov, N.Danilina. For the question about heat transfer units efficiency. Natural and technical sciences. №4(60).2012. P.324-333.
- 19. A.Ryzhenkov, M.Morozov, O.Yurenko. Today operation condition for liquid fluids and carbohydrates transportation. Natural and technical sciences. №4(60).2012. P.334-338.
- 20. P.Gotovtsev, J.Tikhomirova, E.Khizova. Mathematical modeling of industrial water systems. Hong Kong International Conference on Engineering and Applied Science. December 2012. Conference Proceedings P 252 260
- 21. P.Gotovtsev, A. Doroshin, A. Doroshina, T. Pantsyrnaya. Thermal power plants as a part of the city water reuse system. IWA Regional Conference on Waste and Wastewater Management, Science and Technology. 26-28 June 2013 Lemesos Cyprus Abstracts
- 22. O. Egoshina. Today cycle chemistry monitoring systems. Water treatment and cycle chemistry for thermal power plants. 21-23 May 2013, Moscow, OAO VTI p.202-210
- 23. A. Ryzhenkov. Characterization of fluid dynamics at tube with hydrophobic coating. Water treatment and cycle chemistry for thermal power plants. 21-23 May 2013, Moscow, OAO VTI p.6-14
- 24. V.Voronov, I.Nikitina, M.Repkin. Today technologies for pre-treatment systems reconstruction. Radioelectronics, electrotechnics and power engineering international conference. Moscow. MPEI. 2013. P.110
- 25. P.Gotovtsev, I.Nikitina, O.Braginskaya. Enchantment of water chemistry control at thermal power plants. Radioelectronics, electrotechnics and power engineering international conference. Moscow. MPEI. 2013. P.93