



ROSATOM



STATE ATOMIC ENERGY CORPORATION «ROSATOM»

ALEKSANDRA L. SIROTKINA

Master of Science, Nuclear Power Engineering and Thermal Physics

*3d Category Design Engineer of “Central Design Bureau of Machine Building”
(ROSATOM)*

Post-graduated student of “Peter the Great State Polytechnic University”



Education

The main education:

2008..2012 – St.Petersburg State Polytechnical University, Bachelor of Science, Technical Physics

2012..2014 – Peter the Great State Polytechnic University, Master of Science, Nuclear Power Engineering and Thermal Physics

2014.. – Peter the Great State Polytechnic University, Post-graduated student, Nuclear Energy Units

Additional education:

2013..2015: «Rosatoms Corporative Academy», courses of effective presentation, leadership; School of fast reactors (Central Institute of Qualification Enhancement); course of TRIS (theory of invention problems solving)

2015.. – Peter the Great State Polytechnic University, additional qualification: translator in professional area

Main achievements

2012 – 3d level prize, Rosenergoatoms Contest “Youth nuclear scientists knowledge to NPP”

2013 – Winner of Rosatoms Contest “TeMP-2013” (as a head of CDBMB team)

2013 – Laureate of St.Petersburg State Polytechnical University Prize “The best student in investigation area”

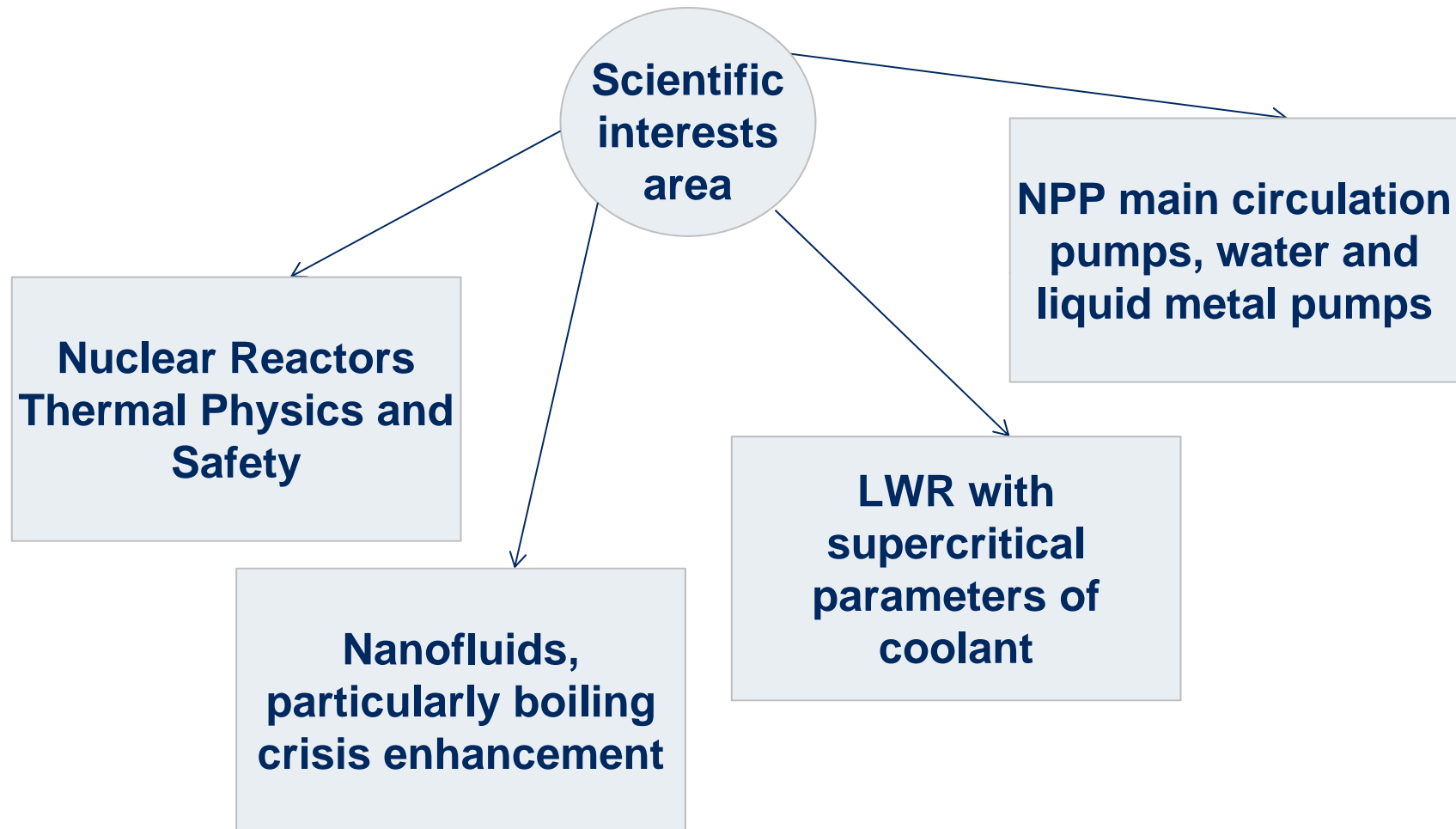
2014 – Laureate of St.Petersburg Government Grant Contest

2015 – Winner of Rosatoms Contest “TeMP-2015” (as an adviser of CDBMB team)

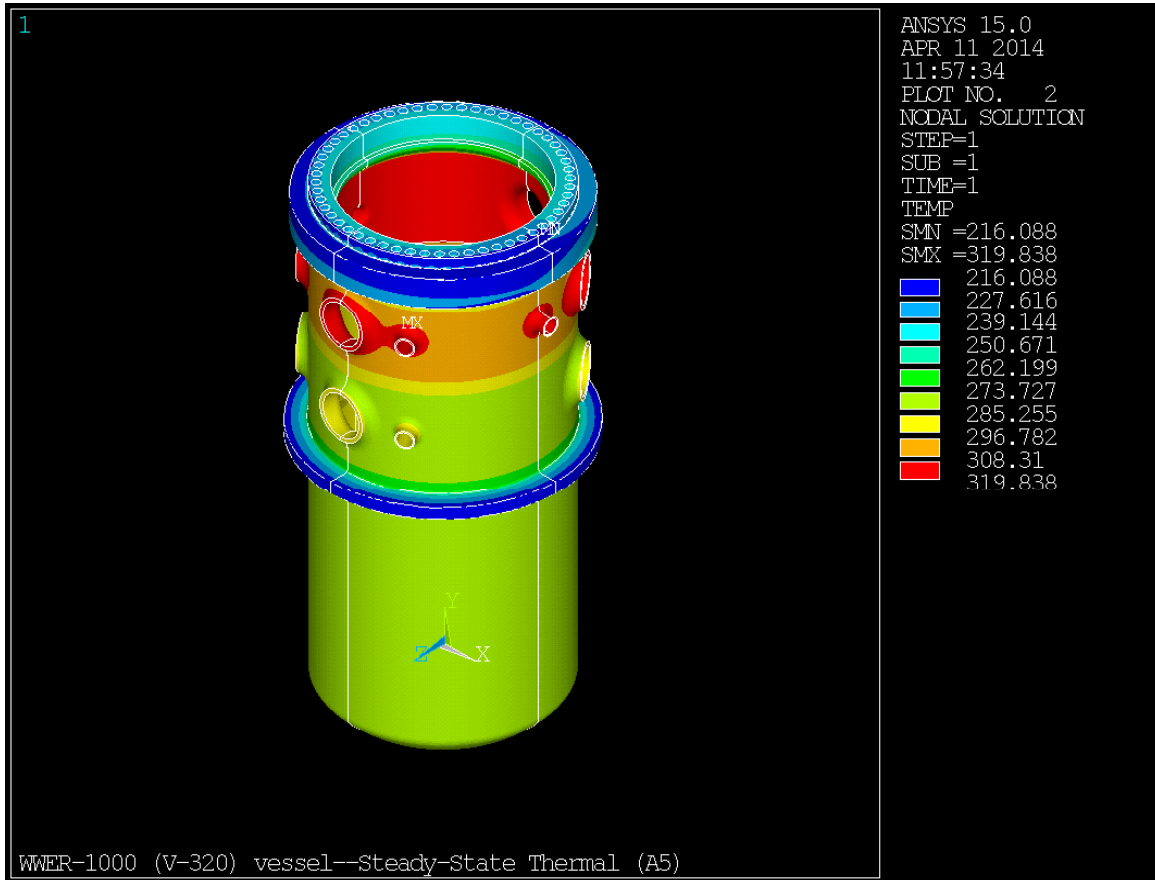
Since 2013: about 10 scientific publications

Laureate of Rosatom Scholarship (2013, 2014), Rosenergoatom Scholarship (2013), Russian Government Scholarship (2014).

Scientific interests

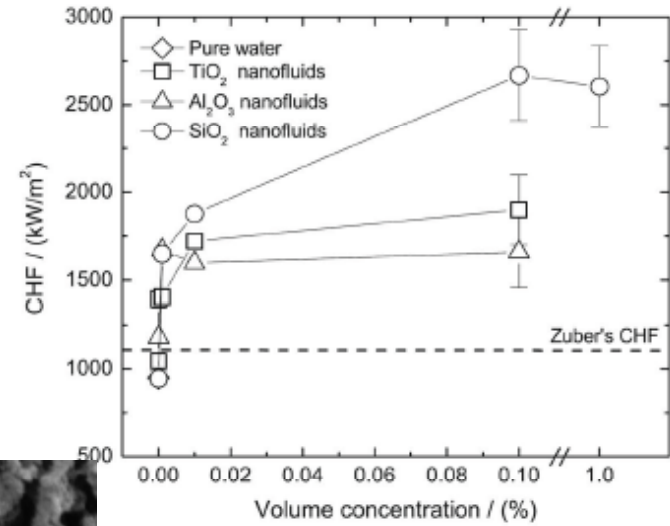
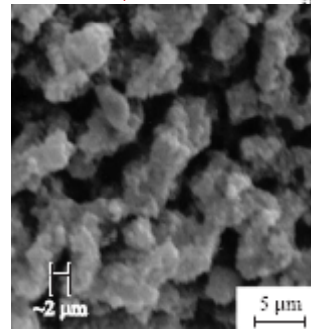
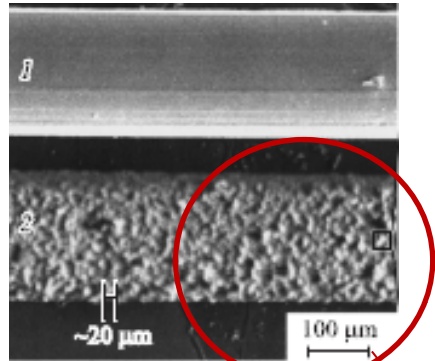


Nuclear Reactors Thermal Physics and Safety



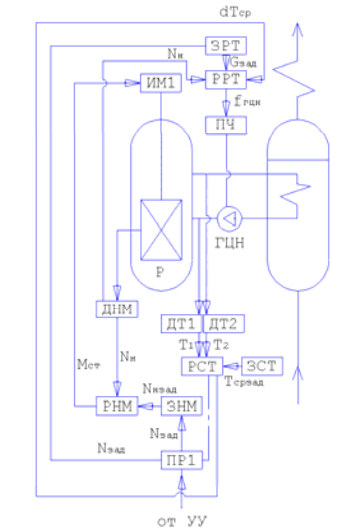
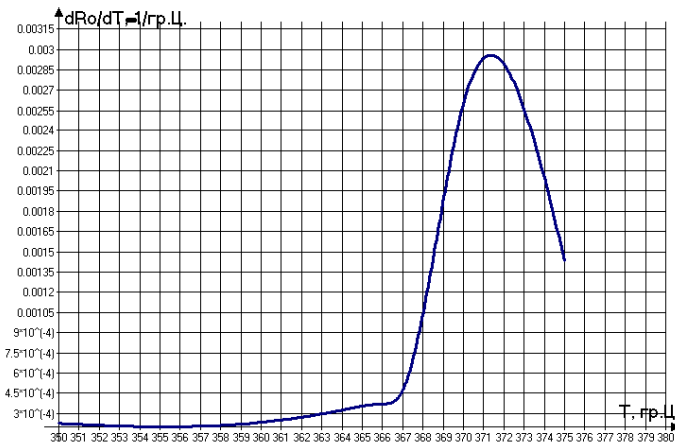
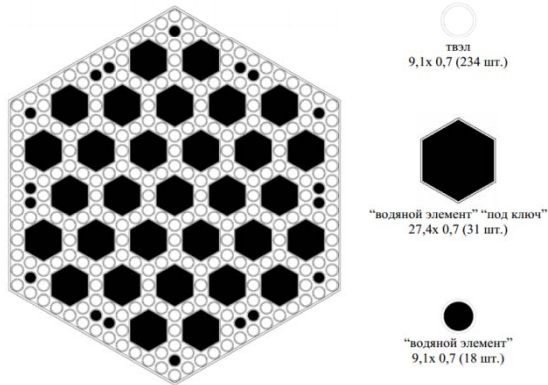
- Analysis of thermal fields during normal operation time and during accidents;
- Thermal stress analysis;
- Using of “ANSYS” CAE;
- Boiling crisis in different circumstances investigation;
- Calculation of safety limits

Nanofluids



The main goal of my investigation is to find an empirical and theoretical correlations of Critical Heat Flux (CHF).

LWR with supercritical parameters of coolant



- Special physical features of SCWR;
- System of control;
- Transient calculations;
- Estimation of possibility of using such reactors with variable power level consumption

Contact information



Thank you for your attention!

Contacts:

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