



# **Lobachevsky State University of Nizhni Novgorod, Russia**

## **Research Institute for Chemistry**

**The Research Institute for Chemistry was established on February 15, 1944 to meet the growing demand of intensively developing regional industries.**



**The Institute for  
Chemistry,  
since 1971**



**First building of the Institute  
for Chemistry, 1944 - 1971.**



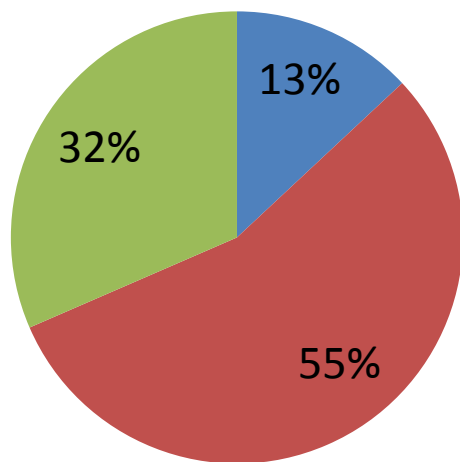
**Professor Moiseyi B. Neyman  
The founder and first director  
of the Institute**



**Professor Evgeniy V. Suleymanov, Dr.  
Director of the Research Institute for Chemistry**

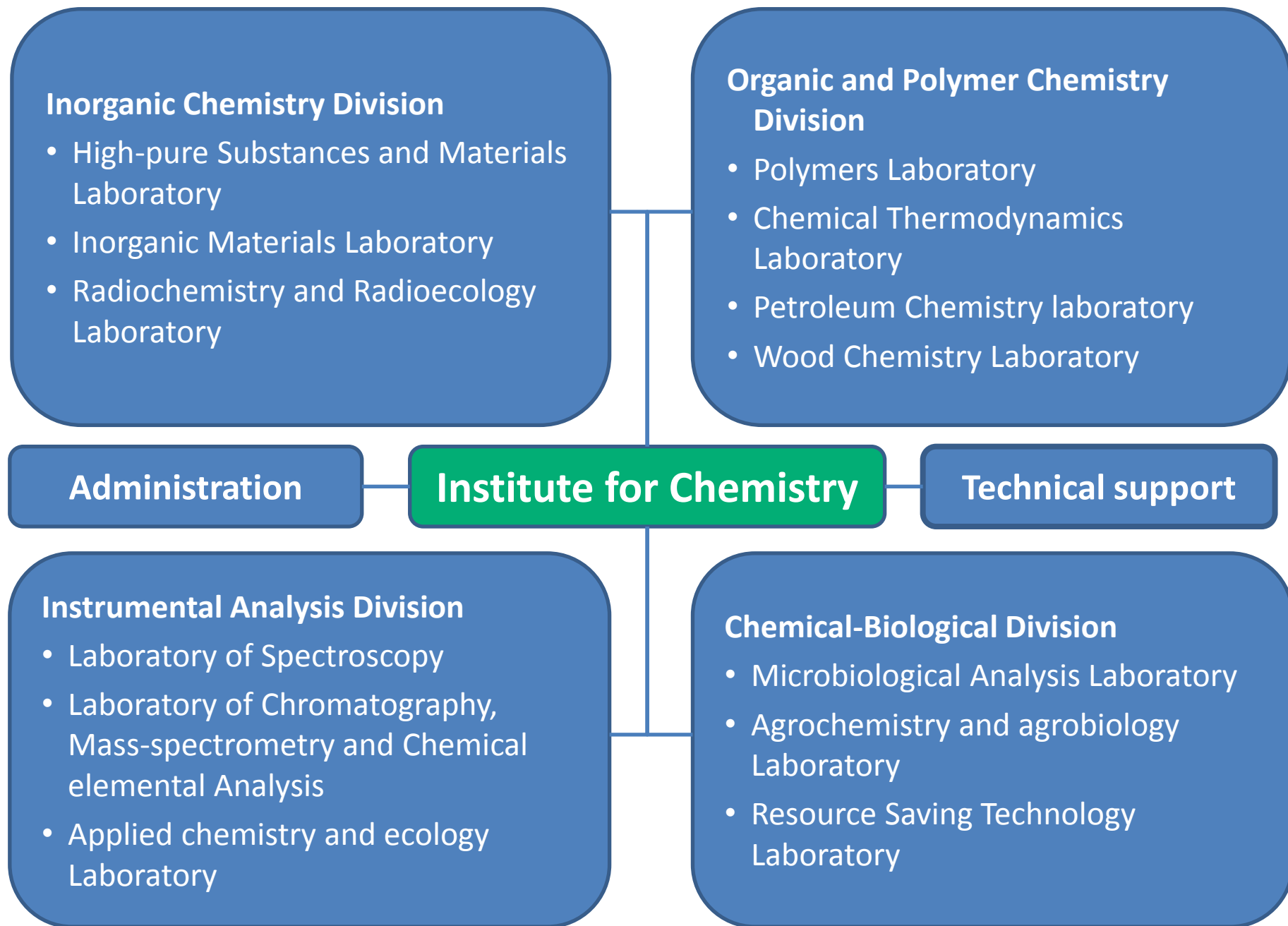
## The Research Institute for Chemistry

Researcher	Number
Doctor of science	9
PhD	56
Graduate Students	13
Undergraduate Students	15
Other researchers	9



### Personnel, 2015 г.

- Administrative and support (24)
- Researchers (102)
- Laboratory assistants (58)





	2011	2012	2013	2014	2015
<b>Research Papers (Web of Science, Scopus)</b>	<b>25</b>	<b>30</b>	<b>30</b>	<b>35</b>	<b>36</b>
<b>Patents</b>	<b>2</b>	<b>4</b>	<b>7</b>	<b>3</b>	<b>8</b>

Journal of Solid State Chemistry 215 (2014) 152–159



Contents lists available at ScienceDirect

Journal of Solid State Chemistry

journal homepage: [www.elsevier.com/locate/jssc](http://www.elsevier.com/locate/jssc)



Topologically identical, but geometrically isomeric layers in hydrous  $\alpha$ -,  $\beta$ -Rb[ $\text{UO}_2(\text{AsO}_3\text{OH})(\text{AsO}_2(\text{OH})_2)] \cdot \text{H}_2\text{O}$  and anhydrous Rb[ $\text{UO}_2(\text{AsO}_3\text{OH})(\text{AsO}_2(\text{OH})_2)$ ]

Na Yu<sup>a</sup>, Vladislav V. Klepov<sup>a</sup>, Eric M. Villa<sup>b</sup>, Dirk Bosbach<sup>a</sup>, Evgeny V. Suleimanov<sup>c</sup>, Wulf Depmeier<sup>d</sup>, Thomas E. Albrecht-Schmitt<sup>e,\*</sup>, Evgeny V. Alekseev<sup>a,f,\*</sup>

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<sup>b</sup> Department of Chemistry, Creighton University, 2500 California Plaza, Omaha NE 68178, USA

<sup>c</sup> Department of Chemistry, Lobachevsky State University of Nizhny Novgorod, 603950 Nizhny Novgorod, Russia

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<sup>e</sup> Department of Chemistry and Biochemistry, Florida State University, 102 Varsity Way, Tallahassee, FL 32306-4390, USA

<sup>f</sup> Institut für Kristallographie, RWTH Aachen University, 52066 Aachen, Germany

Thermochimica Acta 604 (2015) 115–121

Contents lists available at ScienceDirect

Thermochimica Acta

journal homepage: [www.elsevier.com/locate/tca](http://www.elsevier.com/locate/tca)



Thermodynamic properties and low-temperature X-ray diffraction of vitamin B<sub>3</sub>

A.V. Knyazev<sup>\*</sup>, N.N. Smirnova, A.S. Shipilova, A.N. Shushunov, E.V. Gusarova, S.S. Knyazeva

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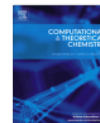
Computational and Theoretical Chemistry 1074 (2015) 83–90



Contents lists available at ScienceDirect

Computational and Theoretical Chemistry

journal homepage: [www.elsevier.com/locate/comptc](http://www.elsevier.com/locate/comptc)



Alternative mechanism of silane addition to the imido complex (<sup>t</sup>BuN=)<sub>2</sub>Mo(PMe<sub>3</sub>)<sub>2</sub>. A quantum chemical study

Andrey I. Okhapkin<sup>a,\*</sup>, Stanislav K. Ignatov<sup>a</sup>, Alexey G. Razuvaev<sup>b</sup>

<sup>a</sup> Chemistry Department, N.I. Lobachevsky State University of Nizhny Novgorod, 23 Gagarin Avenue, Nizhny Novgorod 603950, Russia

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Colloids and Surfaces A: Physicochem. Eng. Aspects 481 (2015) 20–30



Contents lists available at ScienceDirect

Colloids and Surfaces A: Physicochemical and Engineering Aspects

journal homepage: [www.elsevier.com/locate/colsurfa](http://www.elsevier.com/locate/colsurfa)



Assembly of oligo(ethylene glycol)- and amine-containing methacrylic esters in water and water–hexane mixtures

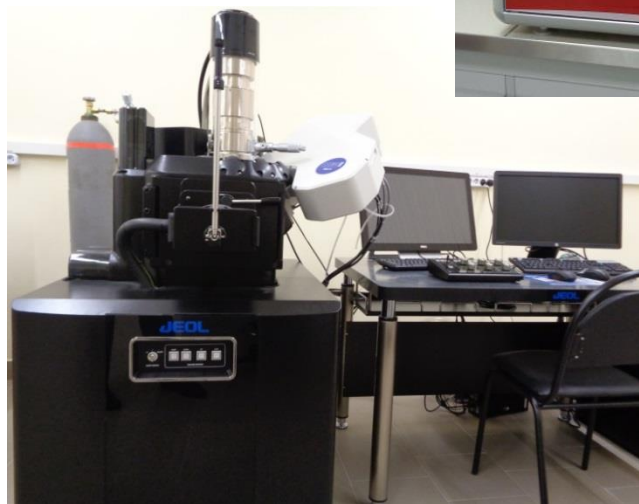
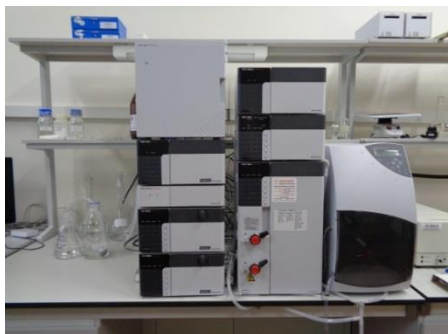
Dmitry V. Orekhov<sup>a</sup>, Denis M. Kamorin<sup>a</sup>, Misha Rummyantsev<sup>a</sup>, Oleg A. Kazantsev<sup>a,b</sup>, Alexey P. Sivokhin<sup>a,\*</sup>, Aleksey V. Gushchin<sup>b</sup>, Maria V. Savinova<sup>a</sup>

<sup>a</sup> Nizhny Novgorod State Technical University n.a. R.E. Alekseev, 24 Minin St., 603950 Nizhny Novgorod, Russia

<sup>b</sup> Lobachevsky State University of Nizhny Novgorod, 23 Prospekt Gagarina (Gagarin Avenue), 603950 Nizhny Novgorod, Russia

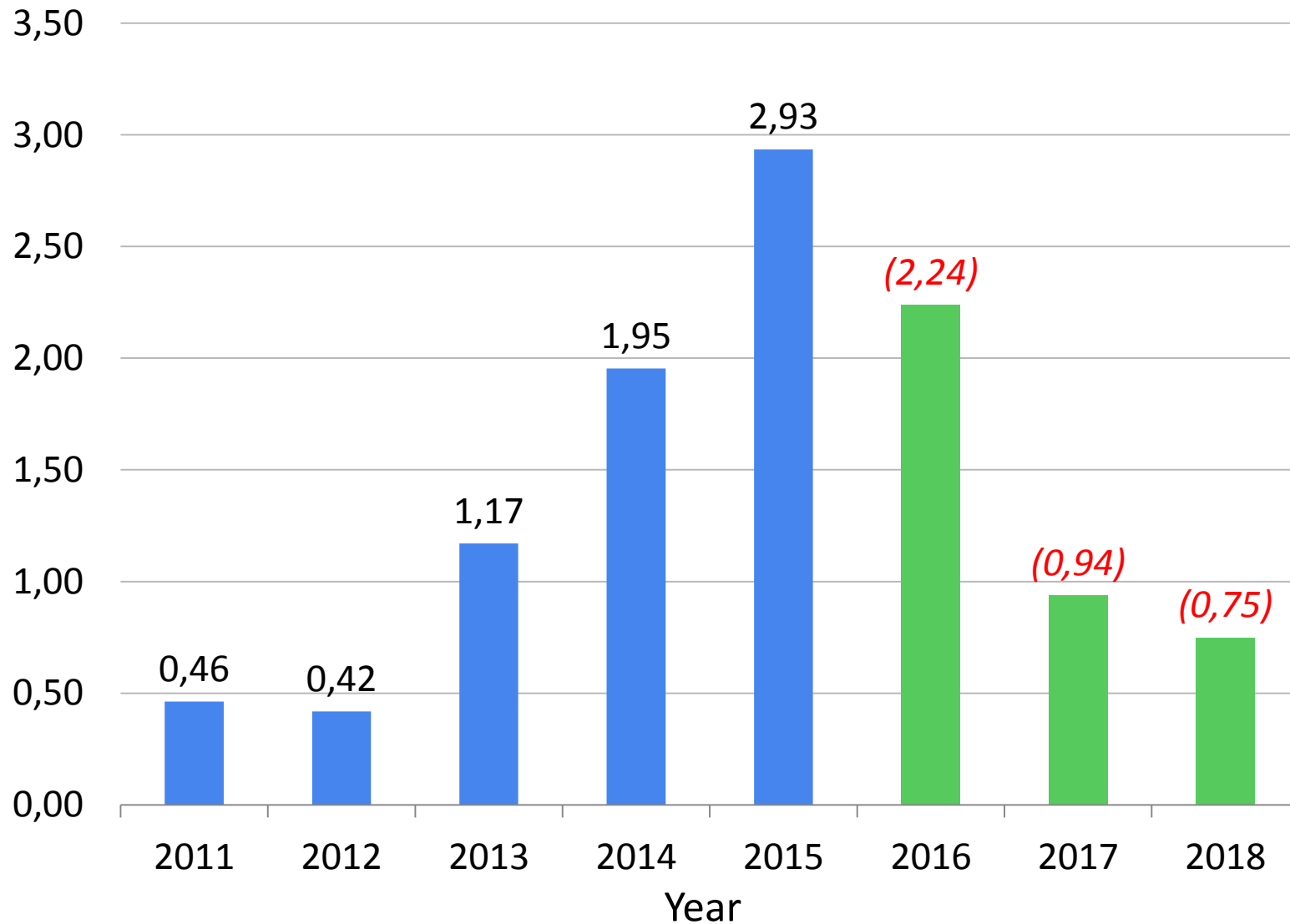




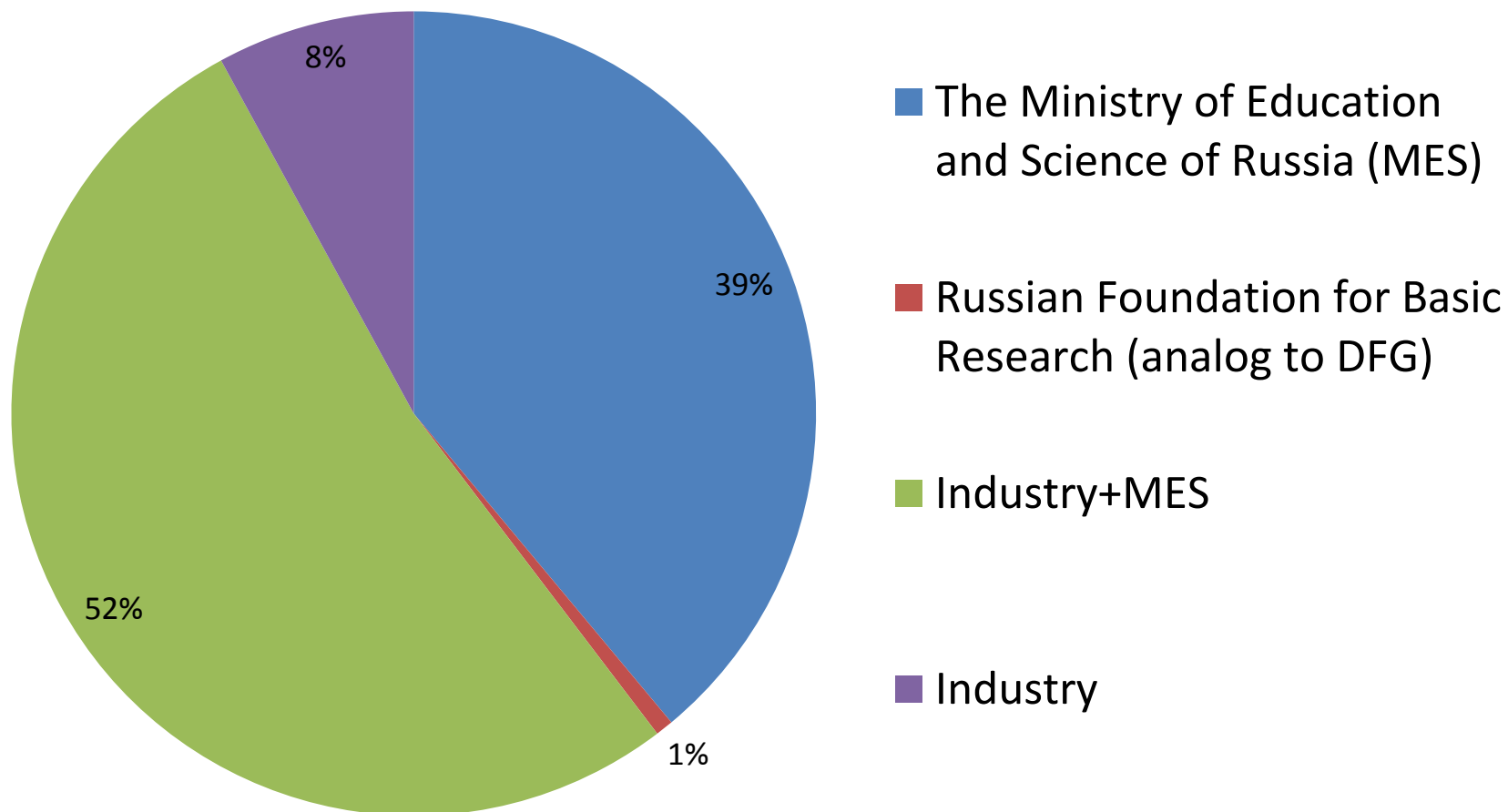


# Income of the Institute for Chemistry

million euros



## Income, 2015 (%)





Some research projects of the Institute (Federal Russian Government Programs, Ministry of Education and Science)	Thous. euros
«Monitoring and Forecasting the State of Radioactive Waste Storage Area in Nizhniy Novgorod Region and Development of the Safety Precautions to Prevent Radionuclides Penetration into the Environment» (2012-2013)	33,8
«Photo-electric and Luminescence Diagnosis of Ferro-Magnetic Semiconducting GaAs-nanostructures» (2012-2013)	35,0
«New Theoretical Approaches Development in Diagnosis, Analysis and Protection of Industrial and Civil Microbiologically Damaged Buildings and Constructions» (2013)	62,5
«Development of Nanomodified Polyurethane-based Composition with Improved Light-Reflecting Properties and Durability for Road Marking Paint» (2013)	62,5
«Development of Polyfunctional Nanomodified Composites for the Movement Joint Repair in the Bridges Constructions» (2013)	62,5
«Scientific and Technological Basis of Large-scale Metallurgy Dust Waste Reprocessing to the Building Industry Pigment» (2013)	62,5
«Development of the Center "New materials and Resource Saving Technologies" to Improve the Ecology, Resource and Energy Efficiency of Current Industry Production» (2014-2015)	1406,3
«Chemical Raw Materials Modification with Vortex Reactors» (2015-2017)	425,0

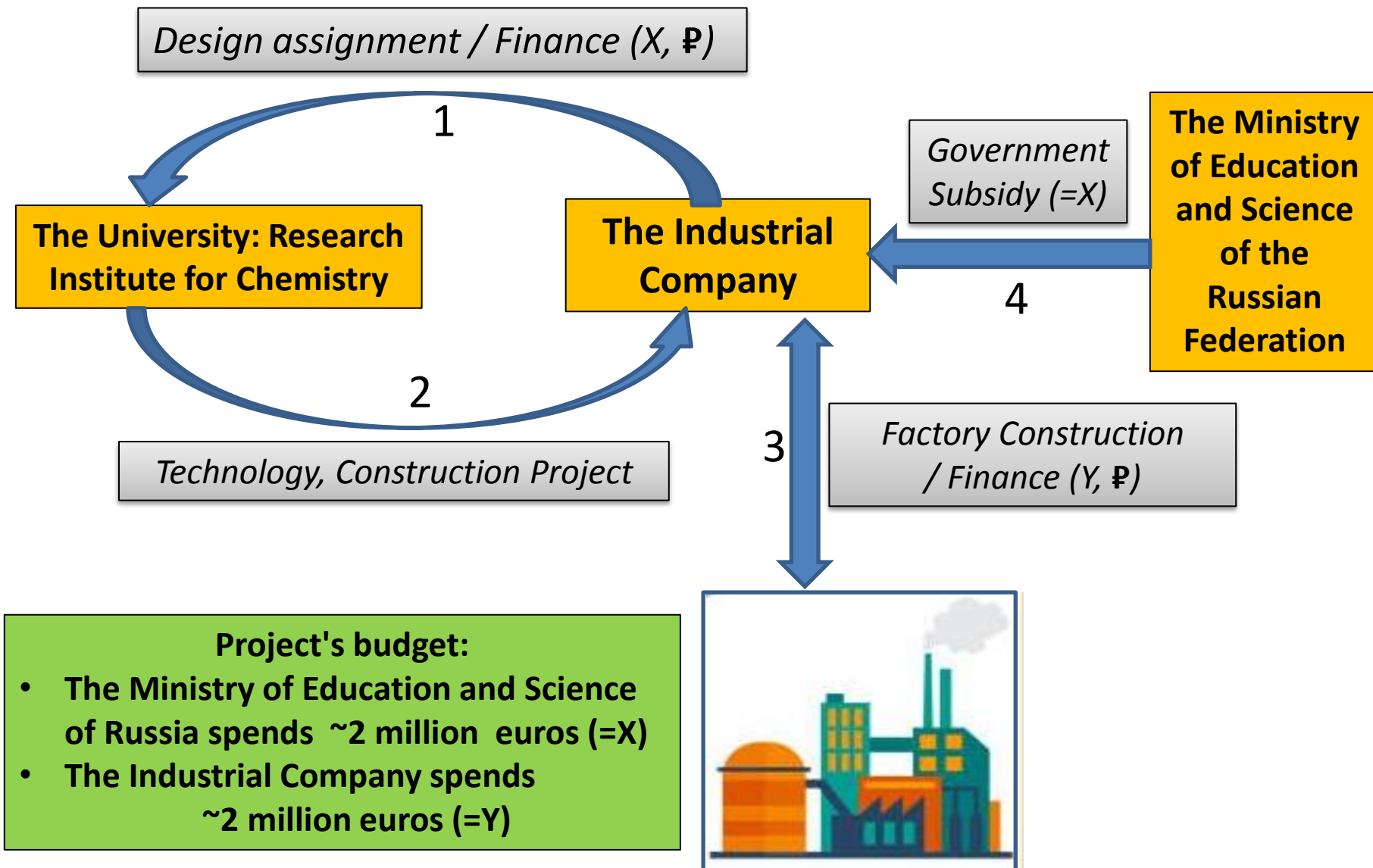
Joint Projects of the Research Institute and Russian Industry (Resolution of the Government of the Russian Federation N218)	mill. euros
«High tech Production Development Based on Innovative Deep Processing of the Wood Industry Liquid Wastes » (2013-2015) ORGKHM Biochemical Holding, <a href="http://www.orgkhim.com/">http://www.orgkhim.com/</a>	2,4
«High tech Production Development Based on Bio Glycerin Innovative Complex Processing» (2014 – 2016) “Tosol-Sintez” Company, <a href="http://www.tosol-sintez.ru/eng">http://www.tosol-sintez.ru/eng</a>	2,0
«High tech Production Development of Non-Carcinogenic Oils-Plasticizers for Tires, Rubbers and Plastics Based on Innovative Petroleum Industry Wastes Processing» (2016 – 2018) ORGKHM Biochemical Holding, <a href="http://www.orgkhim.com/">http://www.orgkhim.com/</a>	2,1

As a result of the first project realization, an industrial plants for high grade pine oil (TERPINE-85, 95 Pine Oil), perfumery-grade terpineol and also terpin hydrate of pharmacopoeia quality production start operating in December 2015

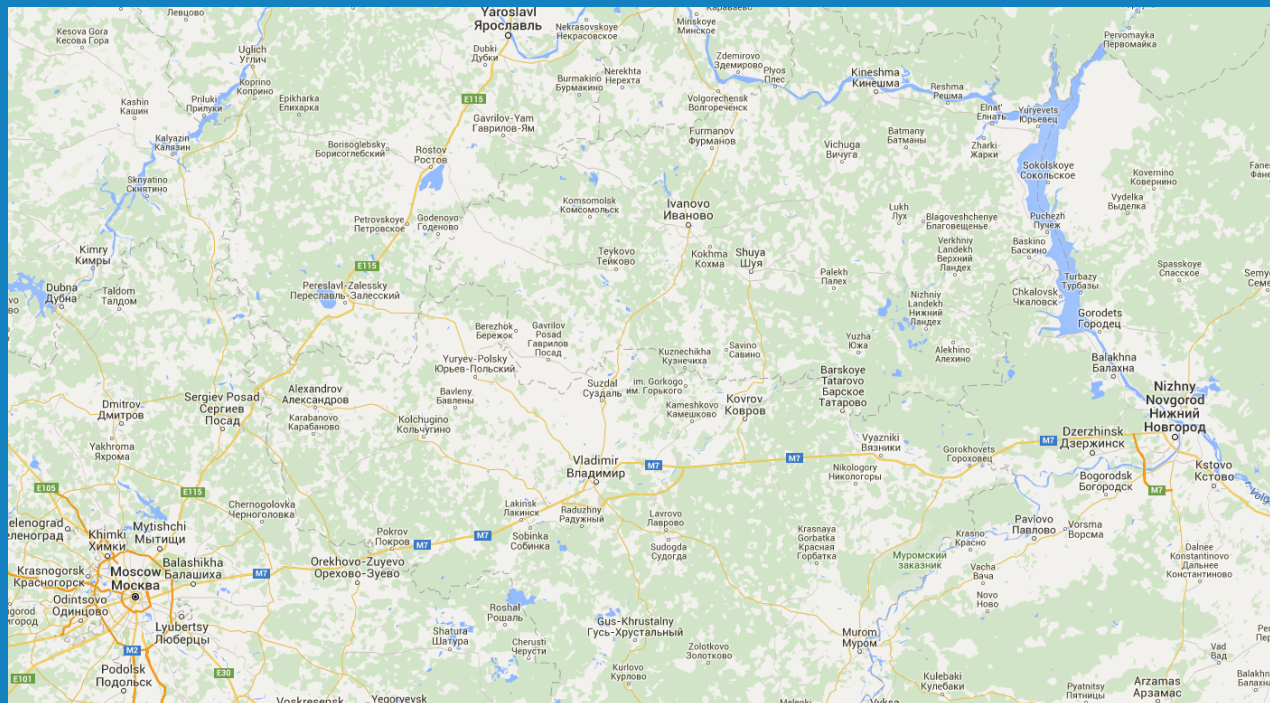




## Resolution of the Government of the Russian Federation N218



# The Research Institute for Chemistry



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