



СИБИРСКИЙ ФЕДЕРАЛЬНЫЙ УНИВЕРСИТЕТ
SIBERIAN FEDERAL UNIVERSITY

Report



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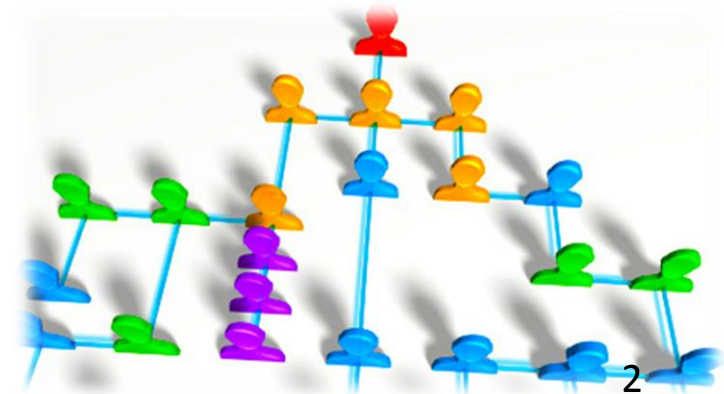
Petroleum chemistry and refining

Scientific supervisor - Fedor Buryukin
(associate professor , PhD in Chemistry)



Structure

- Training centre
- Topicality and aims
- Objectives
- Program of the internship
- Results
- Questions



IFP Training

- IFP Training Company is a branch of the French Petroleum Institute (IFP Energies nouvelles), a world leader in the field of services for vocational training in the oil and gas industry.



Topicality and aims

«Development of a method of smoothing disturbances arising in the flow of fluid in the pipeline»

- The aim of this research is to develop a stand for the industrial testing of anti turbulent additives
- Oil transportation through pipelines can be increased significantly due to the use of anti turbulent additives

Objectives

- To explore the technology of additives production
- To visit a test laboratory of anti turbulent additives
- To develop a test stand project for quality assay of anti turbulent additives



Program of the internship

- First week
 - OVERVIEW OF REFINING
Visit refinery industrial site
 - OVERVIEW OF PETROCHEMICAL
A visit to the steam kreging and chemical plant
 - EXAMPLES OF PLASTICS PROCESSING
A visit to the industrial site

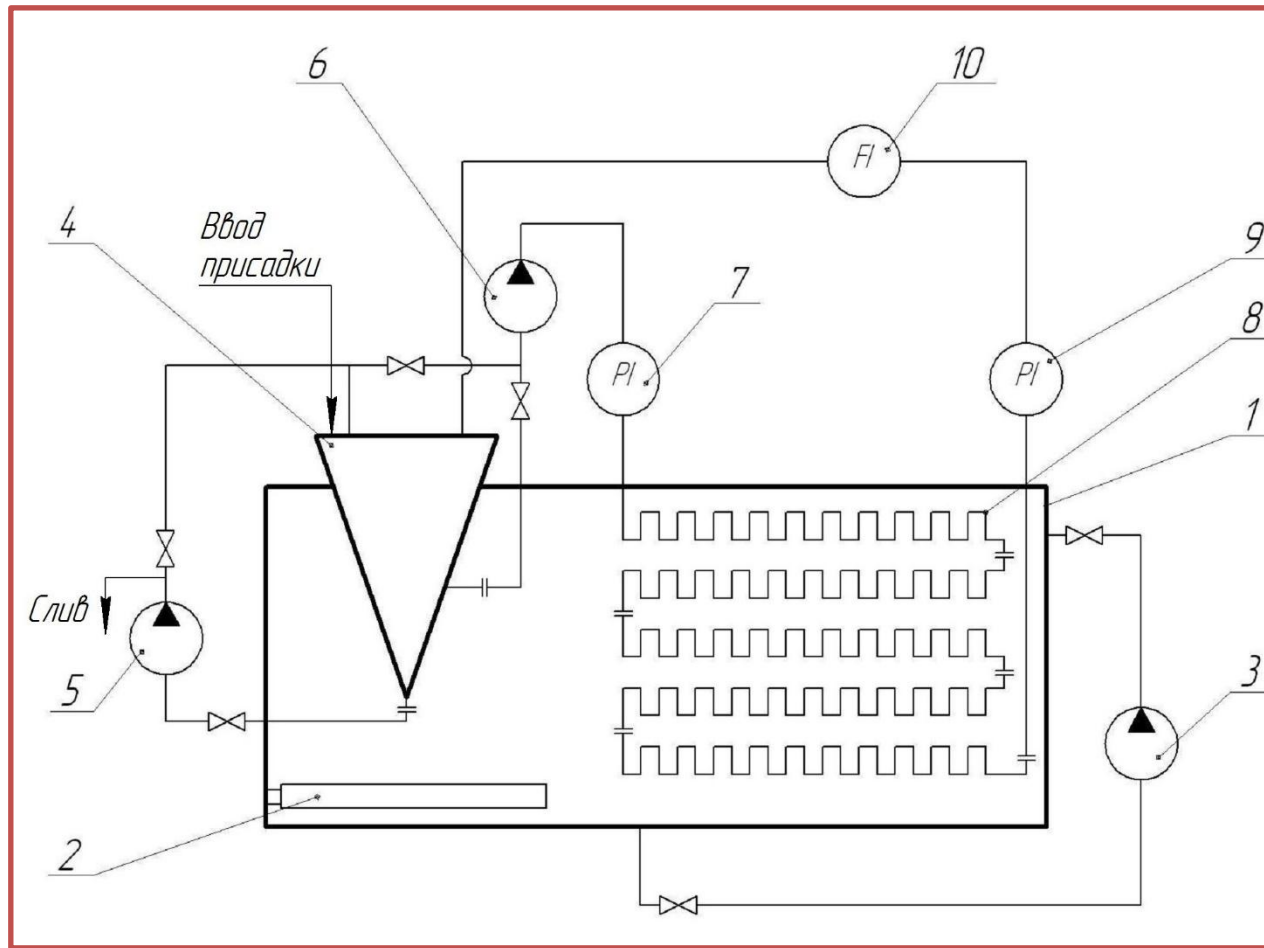


Turbulence Rheometer (TR)

- Study anti turbulent additives (ATP)
- Research of ATP efficiency
- Optimization ATP
- Quality control



Schematic diagram of the test bench



The main contributions

- the technology of oil refining and petrochemistry
- the scheme stand for the assay of additives quality
- a unique test bench scheme

