

## **Industrial Wastewater Treatment as a Field and a Career Choice**

by Timur Dunaev.

In this lecture we will be going over the basics and the specifics of Industrial Wastewater Treatment as a field. A typical project would be discussed from the standpoint of conceptualization, following with execution, construction, commissioning, start-up and performance testing. We will be reviewing this life cycle to acquire a generic understanding of positions and responsibility matrixes available through this project cycle and discussing what fits best for personalities and backgrounds. We will clearly outline the goals of project as it pertains to Environmental standards and see how one would go about solving the puzzle of delivering the project with a good safety margin, while still being commercially successful. We will discuss the roles of business development, project engineering, process engineering, and project management. Process selection and know-how are highlighted, as well as structure of engineering packages and streamline solutions. Brief discussion over what technologies are currently penetrating the market and market drivers pushing these technologies will occur. We will work through full understanding of how and where scholarly knowledge is practical, and where one would have to learn more things in the field, to be competent about work and construction of full scale wastewater treatment facilities.