IRCSEM

INOUE LAB.

[Treatment of Waste Glasses]

International Research Center for Sustainable Energy and Materials

Amorphous Materials Design

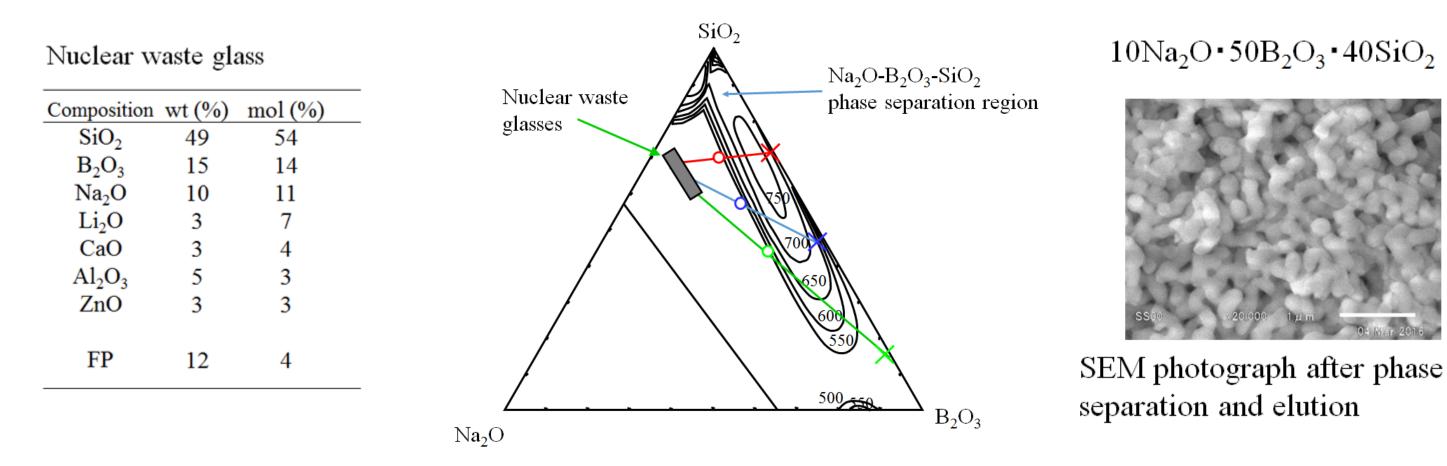
Department of Materials Engineering

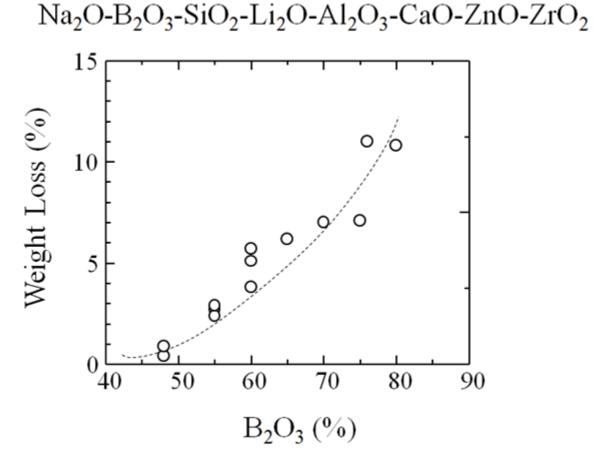
http://www.vitreous.iis.u-tokyo.ac.jp

Material Design of Amorphous and Liquid States

We study the materials from an amorphous state to a liquid state. Atomic and electronic structures of the amorphous and liquid states have not been well understood. We study the method in order to understand these materials, and apply it to a variety of materials. Moreover we will produce novel materials and their applications.

Chemical Durability and Phase Separation of Nuclear Waste Glasses Control of the chemical durability of nuclear waste glasses





Weight loss after phase separation and elution

Total correlation functions
Molecular dynamics simulations
89 H₂O • 3 H₂SO₄ • 1 TiOSO₄ • 1 MnSO₄

 Computer Simulations of Amorphous and liquid States Novel Titanium/Manganese Redox flow battery

