

# Ινστιτούτο Θεωρητικής και Φυσικής Χημείας Εθνικό Ίδρυμα Ερευνών

Βασ. Κωνσταντίνου 48, Αθήνα

## ΔΙΑΛΕΞΗ

"Glass forming limits: A simple model based on short-range structural units"

**Professor Steve Feller** 

Physics Department, Coe College Cedar Rapids, Iowa, USA

Πέμπτη 25 Φεβρουαρίου 2016, ώρα 12:00

Αίθουσα σεμιναρίων στο ισόγειο του ΕΙΕ

### Glass forming limits: A simple model based on short-range structural units

#### **Steve Feller**

### Physics Department, Coe College, Cedar Rapids, Iowa, USA

In this talk I will discuss the glass forming limits found in five binary oxide glass systems and compare these limits to the short-range atomic-level structural units present. A generalizable model emerges. This model is then applied to ternary alkali borosilicates where certain additional patterns emerge. Complications to the simple model are introduced such as the effect of certain ring structures, as well as the practical problem of carbon dioxide retention for glasses prepared from carbonates. Physical properties are compared to some of the model predictions.