

Potential Topics

The topics listed below are designed to cover knowledge in the following fields: 1) Glaciology, 2) Glacial sediments and associated landforms, 3) Deglaciation patterns, 4) Glaciation and climate

“Ice age” discovery	Landforms of glacier erosion
Where and how?	Debris transport in glaciers
Late Cenozoic	Avenues of transport
Time divisions	Debris alteration during transport
Anthropocene?	Sediments associated with ice, meltwater drainage, glacial lakes and wind
Ancient and modern glaciers	Non-sorted sediments
Morphology, classification, thickness	Sorted sediments
Extent of modern glaciers	Depositional landforms
Extent of Quaternary glaciations	Non-sorted sediments
Accumulation and ablation	Sorted sediments
Parts of a glacier	Laurentide Ice Sheet
Conversion of snow to glacier ice	Geometry
Heat sources for ice melt (surface and bottom)	Flow pattern
Glacier mass balance	Southern margin advance and retreat
Gains and losses of ice mass	Sea level and glaciations
Indicators of glacier mass balance	Relationship
Temperature of glaciers	Value of record
Characteristics	Michigan’s glacial record
Classification	Glacial landforms
Glacier surface structures	Record of ice retreat
Types and origins	Rebound isobars
Meltwater drainage on, in & at glacier base	Climate record in marine sediments and ice cores
Avenues of drainage	Form of climate signal
Discharge characteristics	Drivers for signal
Flow of glacier ice	Pattern of signal
Properties of Ice	Significance of signal
Properties of glacier ice	Factors controlling climate change
Deformation of glacier ice	Terrestrial
Flow of glaciers	Atmospheric
Glacial erosion	Extraterrestrial
Mechanisms of erosion	
Factors controlling rate	

