

No. 2 on 11 November 2014, 15:00-16:00
Hörsalen at Geovetarcentrum of the University
of Gothenburg, Guldhedsgatan 5C, Göteborg



Nordenskjöld Lecture

Iceberg Calving for Glacier Models

Speaker: Dr. Doug Benn

Abstract: The breakaway of icebergs (calving) delivers ice from glaciers and ice sheets to the oceans, and is major contributor to current sea-level change. Calving is closely linked to glacier dynamics: changes in ice flow can result in dramatic variations in calving flux, and vice versa. Therefore, understanding calving processes and associated dynamic processes is essential for predicting glacier and ice sheet response to climate change. This talk will discuss recent progress in representing calving in numerical models, and the many remaining challenges that must be met to improve the reliability of model predictions.



Short biography of the speaker: Doug Benn is Professor of Glaciology at the University Centre in Svalbard and the University of St Andrews, Scotland, and is first author of the best-selling textbook *Glaciers and Glaciation*. He has conducted research into many aspects of glacier science, including the response of Himalayan glaciers to climate change, glacio-speleology (ice calving), PreCambrian (Snowball Earth) glaciations, calving processes and the dynamics of calving glaciers, and surging.