

## McCarthy 2014 – International Summer School in Glaciology

### Lecturers

Andy Aschwanden (UAF), Nick Barrand (U Birmingham), Ed Bueler (UAF), Jon-Ove Hagen (Oslo Univ.), Regine Hock (UAF), Mike Loso (Anchorage), Martin Truffer (UAF);  
Lindsay Bartholomew (science communicator, Miami)  
Vladimir Alexeev (UAF, IARC; 2 days)

### Schedule

#### Wednesday 6 August

07:15 – ca.19:00	Transfer Fairbanks - McCarthy
19:30	DINNER
20:30 - 21:00	Practical information (Kristin Link)

#### Thursday 7 August

08:30 – 08:45	Introduction / Practical information (Hock)
08:45 – 09:35	Continuum Mechanics I (Truffer)
09:35 - 10:20	Continuum Mechanics II (Truffer)
10:20 – 10:35	<i>Break</i>
10:35 – 11:25	Continuum Mechanics III (Truffer)
11:25 – 12:20	Science communication (Bartholomew)
	<i>LUNCH</i>
14:00 – 15:30	Exercises (Truffer with help by Aschwanden/Bueler, 1hr; Bartholomew, ½ hr)
15:30 – 15:45	<i>Putting up posters / Break</i>
15:45 – 18:30	Student poster session
19:00	<i>DINNER</i>
20:00 – 21:00	Mark Vail (McCarthy): “A View from Here”

#### Friday 8 August

08:30 – 09:20	Glacier mass balance I (Hagen)
09:30 – 10:20	Glacier mass balance II (Hagen)
10:20 – 10:35	<i>Break</i>
10:40 – 11:30	Glacier mass balance III (Hock)
11:40 – 12:30	Glacier flow (Aschwanden)
	<i>LUNCH</i>
14:00 – 15:00	Exercises (Hock/Hagen)
15:00 – 16:00	Group projects
16:00 – 16:15	<i>Break</i>
16:15 – 17:15	Group projects
17:30 – 18:30	Arctic Climate (Vladimir Alexeev)
19:00	<i>DINNER</i>
	<i>McCarthy's Friday night softball</i>

### Saturday 9 August

09:00 – 18:00	<b>Glacier excursion (Loso/Hock)</b>
19:30	DINNER ( <i>TBD where and when</i> )
20:30-21:30	Public Lecture in Kennicott: “When ice meets water” (Martin Truffer)

### Sunday 10 August

08:30 – 09:20	Glacier meteorology and energy balance I (Hock)
09:25 – 10:15	Glacier meteorology and energy balance II (Hock)
10:15 – 10:30	<i>Break</i>
10:30 – 11:20	Ice Sheet Modeling I (Bueler)
11:25 – 12:20	Ice Sheet Modeling II (Bueler)
	<i>LUNCH</i>
14:00 – 16:00	Exercises (Hock, Aschwanden (glacier flow))
16:00 – 16:15	<i>Break</i>
16:15 – 18:30	Group projects
19:00	<i>DINNER</i>

### Monday 11 August

08:30 – 09:20	Remote sensing I (Barrand)
09:25 – 10:15	Remote sensing II (Barrand)
10:15 – 10:30	<i>Break</i>
10:30 – 11:20	Inverse methods (Truffer)
11:25 – 12:20	Science communication (Bartholomew)
14:00 – 16:00	Exercises (Barrand, Bartholomew)
16:00 – 16:15	<i>Break</i>
16:15 – 18:30	Group projects
19:00	<i>DINNER</i>

### Tuesday 12 August

08:30 – <b>09:45</b>	Glacial geomorphology (Loso)
09:45 – 10:00	<i>Break/Prepare for excursion</i>
10:15 – 13:00	<b>Excursion to glacier front (Loso/Benn)</b>
	<i>LUNCH</i>
14:00 – 14.50	Glacier hydrology (Hock)
14:50 – 16:00	Surge-type glaciers (Hagen)
16:00 – 16:15	<i>Break</i>
16:15 – 18:30	Group projects
19:00	<i>DINNER</i>

**Wednesday 13 August**

08:30 – 09:20	Remote sensing III (Barrand)
09:25 – 10:15	Remote sensing IV (Barrand)
10:15 – 10:30	<i>Break</i>
10:30 – 11:20	Glacier mass changes from GRACE (Sutterley)
11:25 – 12:20	Thermodynamics (Aschwenden)
	<i>LUNCH</i>
14:00 – 16:00	Exercises (Barrand; Aschwenden)
16:00 – 16:15	<i>Break</i>
16:15 – 18:30	Group projects
19:00	<i>DINNER</i>

**Thursday 14 August**

08:30 – 09:20	Tidewater glaciers I (Truffer)
09:25 – 10:15	Tidewater glaciers II (Truffer)
10:15 – 10:30	<i>Break</i>
10:30 – 11:20	Synthesis and review of exercises (All)
11:25 – 12:20	Synthesis and review of exercises (All)
	<i>LUNCH</i>
14:00 – 16:00	Group projects
16:00 – 16:15	<i>Break</i>
16:15 – 18:30	Group projects / preparation of presentations
19:00	<i>DINNER</i>

**Friday 15 August**

09:00 – 10:30	‘Mini-conference’: Student presentations of group projects
10:30 – 10:45	<i>Break</i>
10:45 – 13:00	‘Mini-conference’: Student presentations of group projects
	<i>LUNCH</i>
	FREE AFTERNOON
19:00	BANQUET

**Saturday 16 August**

08:30 – 19:00	Transfer McCarthy - Fairbanks
19:30 - ?	Pizza-Party in Fairbanks