

# GK Batchelor Laboratory: 50 years

## Sunday

17:00 Registration opens (CMS)

18:00 Drinks reception (CMS)

## Monday

08:30 Registration

09:10 Welcome

09:20 Stuart Dalziel                      A game for all ages

09:40 Ross Griffiths                      Flow transitions in horizontal convection

10:00 Peter Davidson                      From the GKB Lab to the core of the Earth

10:20 Coffee

11:00 Jan Erik Weber                      Stokes drift in internal waves

11:20 Leo Maas                              Experimental falsification of internal-tide-generation paradigm

11:40 Jan-Bert Flor                              Internal wave focusing in stratified fluids

12:00 Jim Rottman                              Direct simulations of breaking ocean waves with data assimilation

12:20 Lunch

14:00 Andrew Wells                              Melting ice sheets and freezing oceans: coupled convection and phase change

14:20 Claudia Cenedese                              Laboratory experiments investigating submarine melting of Greenland's glaciers

14:40 John Wettlaufer                              Unreasonable elasticity: why Hertz' theory is so effective

15:00 Tea

15:40 John Bush                              Pilot-wave hydrodynamics

16:00 Gregory Lane-Serff                              Modelling oceanic overflows

16:20 Herbert Huppert                              Too hot to handle: the GKB lab solution

16:50 Lab tour

## Banquet (Downing)

19:00 Drinks

19:30 Dinner

After dinner talk: Paul Linden

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## Tuesday

09:00	Yossi Elimelech	Mind the (feathers) gaps: lessons for hovering from the moult of hummingbirds flight feathers
09:20	Daisuke Takagi	Capturing stealthy microswimmers
09:40	Jerome Neufeld	Modelling geological flows in the lab
10:00	Jim McElwaine	How to snowboard on Mars

### 10:20 Coffee

11:00	Andrew Lawrie	Confined Rayleigh-Taylor instability
11:20	David Youngs	DNS and ILES of Rayleigh-Taylor Mixing
11:40	Pablo Huq	Effect of molecular diffusivities on anisotropy measures in density stratified turbulence
12:00	Christos Vassilicos	Axisymmetric turbulent wakes with new non-equilibrium

### 12:20 Lunch

14:00	Richard Perkins	Gone with the wind – mixing and dispersion in the urban canopy
14:20	Silvana Cardoso	Suppression of convection by chemical reaction in a porous medium. Application to carbon storage
14:40	Gabriel Rooney	Large-eddy simulation of plumes and thermals

### 15:00 Tea

15:40	Bruce Sutherland	Turbidity currents in stratified ambients
16:00	John Shi	Laboratory experiment on turbulent mixing across a shear-free density interface in a stably stratified fluid
16:20	Ray Goldstein	The role of fluid dynamics in the synchronization of eukaryotic flagella

### 16:50 Lab tour