

## Vorträge

Freitag, 07. September 2012, 10:30 Uhr, Hörsaal 1, UZA II

### Außerordentliches mathematisches Kolloquium

Prof. Dr. Ian A. Frigaard (University of British Columbia): "*Quantifying flow regimes, front velocity and efficiencies in buoyant pipe displacement flows inclined close to horizontal*"

#### Abstract:

*When one fluid displaces another fluid along a pipe a number of different regimes may result, depending flow rate, inclination, rheology and density of the fluids. Up to 10 dimensionless parameters may be identified for the most general situation. For near horizontal pipe flows with a density difference there is a tendency for the two fluids to stratify at long times, arrested only by inertial mixing between the fluids. We present results of a combined experimental, theoretical and computational study that succeeds in identifying the leading order flow behaviour and quantifying the front velocity (and hence displacement efficiency). Joint work with S.M. Taghavi, K. Alba, T. Seon and K. Wielage-Burchard.*

(10:00 Uhr K&K vor Hörsaal 1, UZA II)

Dekan Univ.-Prof. Dr. Harald Rindler, Univ.-Prof. Dipl.-Ing. Dr. Otmar Scherzer

Montag, 3. September 2012, ab 8:30 Uhr bis Donnerstag, 6. September 2012, ab 8:30 Uhr, HS 3, UZA 4

### Krakow-Vienna workshop 2012

(Details siehe Link)

[http://www.univie.ac.at/nuhag-php/event\\_NEW/make.php?event=scv12&page=program](http://www.univie.ac.at/nuhag-php/event_NEW/make.php?event=scv12&page=program)  
organized by B. Lamel, Włodzimierz Zwonek