



2016

# BURGERS SYMPOSIUM

Conference Centre 'De Werelt' in Lunteren

16

&

17

JUNE

2016

The Burgers Symposium is a two-days meeting of the JM Burgers Centre (JMBC), and is the annual meeting platform for all (junior and senior) scientists of the JMBC. The programme of the Symposium will be attractive for all attendees, both junior and senior, both working on curiosity-driven and applied research projects, both numerically and theoretically oriented.



THE PROGRAMME INCLUDES :

- Burgers Lecture by Professor Jeroen van Beeck (Von Kármán Institute, Brussels)
- Evening Lecture by Professor John Videler (emeritus Groningen & Leiden)
- Parallel sessions with approx. 80 oral presentations by junior scientists (mostly PhD students and postdocs affiliated with the Burgers Centre)
- Award sessions of prizes :
  - Charles Hoogendoorn Fluid Dynamics Award (KIVI)
  - Leen van Wijngaarden Prize
  - Young Scientist Awards for the two best presentations of junior scientists
- Ample possibilities to meet colleagues and friends, during the coffee/tea breaks, lunches, the joint dinner, and the 'evening session' on the first day.

All JMBC members are invited to join in this annual meeting !  
In particular we hope to welcome many (if not all) of the JMBC PhD students and postdocs.

Registration for the Symposium and hotel reservations should preferably be done in a coordinated way per JMBC group. We have invited all the JMBC professors to coordinate the registrations, hotel reservations, junior-speaker suggestions for all the members of their group, in order to promote a coherent organisation.

Other interested persons (members of the Industrial Advisory Board, and other interested individuals, ...) should register individually via the JMBC website:

<http://www.jmburgerscentrum.nl/contact-registration/registration.htm>

We are looking forward to seeing you at the Burgers Symposium  
in Lunteren on 16 & 17 June!

Ilse Hoekstein  
GertJan van Heijst



## BURGERS LECTURE

Fluid Dynamics at the Von Karman Institute - by Prof. Jeroen van Beeck



The von Karman Institute for Fluid Dynamics (VKI) is a multinational educational and research center involved in many international collaborative projects concerning Aeronautics, Aerospace, Turbomachinery, Propulsion, Environmental and Industrial flows. The presentation will overview VKI's main experimental facilities, and the lecturer's current activities on airborne laser diagnostics of cloud particles, snow accumulation near polar stations, and meandering of wind turbine wakes.

## EVENING LECTURE



Lubricating the swordfish head - by Prof. John Videler

The swordfish (*Xiphias gladius*) is reputedly the fastest swimmer on earth. It is a toothless top predator hunting fast prey in the open ocean by chasing it to exhaustion.

Swimming speeds are estimated to reach values of well over 100 km/h. The concave head and iconic sword are some of the unique adaptations but how they contribute to achieve high speeds is still enigmatic. Recently MRI scans we made led to the discovery of a complex organ consisting of an oil-producing gland connected to capillaries with oil excreting pores in the skin. In his lecture, John Videler will reveal some intriguing hydrodynamical aspects of the swimming swordfish.



## CHARLES HOOGENDOORN AWARD (KIVI)

This KIVI prize for the best PhD thesis defended in the Netherlands in the academic year 2014 – 2015 has been awarded to Sander Huisman (former PhD student in the group Physics of Fluids, UT, now postdoc at ENS, Lyon, Fr) for his PhD thesis: "Taylor-Couette turbulence" (supervisors: Profs Chao Sun and Detlef Lohse).



## LEEN VAN WIJNGAARDEN PRIZE



This Prize for 'excellence in fluid dynamics' for scientists  $\leq 40$  years of age has been awarded to Prof Jacco Snoeijer (UT & TU/e) for his excellent work on the dynamics of wetting and moving contact lines. Jacco Snoeijer's research focuses on flows in the presence of a free surface, such as thin liquid films, drops or bubbles. These flows are governed by capillary forces (surface tension) and lead to many interesting shapes and phenomena. He is also interested in the elastic interaction of fluids with soft boundaries. Besides fundamental interest, capillary flows are at the core of industrial applications like coating and small-scale imaging technologies.

