

YOU ARE INVITED

The Department of Chemical Sciences in the Faculty of Science invites you to a Public Chemistry Lecture by

Prof Ben L Feringa

2016 Nobel Chemistry Laureate, Professor of Chemistry at the University of Groningen, the Netherlands

on

Dynamic Molecular Systems from switches to motors

ABOUT THE LECTURE: *The fascinating molecular motors and machines that sustain life offer a great source of inspiration to the molecular explorer at the nanoscale. Among the major challenges ahead in the design of complex artificial molecular systems is the control over dynamic functions and responsive far-from-equilibrium behaviour. Chemical systems ultimately require integration of structure, organisation and function of multi-component dynamic molecular assemblies at different hierarchical levels. A major goal is to achieve and exploit translational and rotary motion. In this presentation, the focus is on the dynamics of functional molecular systems as well as triggering and assembly processes. We design switches and motors in which molecular motion is coupled to specific functions. Responsive behaviour will be illustrated in self-assembly and photopharmacology. The design, synthesis and functioning of rotary molecular motors and machines will also be presented with a prospect towards the future.*

ABOUT THE SPEAKER: *Prof Feringa obtained his PhD at the University of Groningen in the Netherlands. After working as a research scientist at Shell in the Netherlands and at the Shell Biosciences Centre in the UK, he was appointed lecturer and, in 1988, as full professor at the University of Groningen. In 2004, he was named the Jacobus H. van't Hoff Distinguished Professor of Molecular Sciences. He was elected Foreign Honorary member of the American Academy of Arts and Sciences and is a member and vice-president of the Royal Netherlands Academy of Sciences. In 2008, he was appointed Academy Professor and was knighted by Her Majesty the Queen of the Netherlands. In 2016, he received the Nobel Prize for Chemistry shared with Professors Stoddart and Sauvage. <http://www.benferinga.com>*

VENUE ■ Protea Auditorium, School of Tourism and Hospitality
Auckland Park Bunting Road Campus
University of Johannesburg

DATE ■ 3 April 2019

TIME ■ 13:00–14:00

RSVP to Mrs Eureka O'Rourke eurekao@uj.ac.za

On 2 April 2019 the University of Johannesburg will confer a Honorary Doctorate on Prof Ben L Feringa.

DISCLAIMER: The event will be photographed for marketing, social media and media purposes. By attending this event, you grant the University of Johannesburg permission to use and publish any recorded material.

