

24<sup>TH</sup> HERMANN STAUDINGER LECTURE  
NOBEL PRIZE LAUREATES AT FRIAS

# JEAN-PIERRE SAUVAGE

INSTITUTE OF SUPRAMOLECULAR SCIENCE AND  
ENGINEERING, UNIVERSITY OF STRASBOURG

FROM CHEMICAL TOPOLOGY TO MOLECULAR MACHINES

In biology, motor proteins are of utmost importance in a large variety of processes essential to life (ATP synthase, a rotary motor, or the myosin-actin complex of striated muscles responsible for contraction or elongation). In the course of the last 20 years, the field of artificial molecular machines has experienced a spectacular development, in relation to molecular devices at the nanometric level or mimics of biological motors. A few recent examples are based on simple or more complex interlocking ring compounds acting as molecular machines. Particularly significant examples include "molecular shuttles" as well as more complex species reminiscent of muscles or able to act as molecular compressors.

Tuesday, January 9th, 2018

4:15 p.m.

Chemistry Lecture Hall  
Albertstraße 21, Freiburg

Contact: Dr. Britta Küst, FRIAS  
T +49 761 203 97407  
E [britta.kust@frias.uni-freiburg.de](mailto:britta.kust@frias.uni-freiburg.de)



## FRIAS

FREIBURG INSTITUTE  
FOR ADVANCED STUDIES  
ALBERT-LUDWIGS-  
UNIVERSITÄT FREIBURG

UNI  
FREIBURG