

# GRAND OPENING BIONANOSCIENCE

16.09.2010

We proudly invite you to the inaugural symposium of the newly established Department of Bionanoscience at Delft University of Technology. Because biology is increasingly becoming an engineering discipline, Delft University is investing significantly in this new department, which will form part of the university's successful Kavli Institute of Nanoscience.

Bionanoscience is a new field of science at the crossroads of biology and nanoscience. The department focuses on the functioning of single cells in all their complexity down to the molecular level. The toolkit of nanotechnology enables the depiction, study and control of the biological molecules that constitute the building blocks of living cells. This provides new insights into the fundamental workings of living cells. Results from bionanoscience are additionally very promising for practical applications like molecularly targeted medicine, analytical biotechnology, and innovative energy sources. Bionanoscience also comprises synthetic biology, in which gene regulation systems, artificial biomolecules, and nanoparticles are developed and applied within cells.

Studying the workings of a living cell requires broad expertise and the department is growing into a strongly multidisciplinary team of scientists with varying backgrounds ranging from cell and molecular biology, synthetic biology, theoretical biology and biophysics, superresolution microscopy, single-molecule biophysics, nanomedicine, and bionanoscience applications.

We celebrate the start of this adventure with an exciting opening symposium on the 16th of September, 2010. I look forward to meeting you then!

With kind regards, on behalf of co-initiator Nynke Dekker and all members of the department,

Prof.dr. Cees Dekker  
Chairman of the Department of Bionanoscience

**Location**  
Aula, Zaal D, TU Delft  
Mekelweg 5, 2628 CD Delft  
The Netherlands

**Registration**  
Send your full name  
and affiliation to  
Secr-BN-TNW@tudelft.nl

**Information**  
E. van Hartrop, +31 (0)15 278 23 18  
Secr-BN-TNW@tudelft.nl  
[www.bn.tudelft.nl](http://www.bn.tudelft.nl)

**Bionanoscience Department**  
Think big about life at the smallest scale

## Program

- 09:00 Arrival
- 09:30 Welcome by Hans Mooij  
Director of the Kavli Institute of Nanoscience Delft
- 09:35 Introduction by Cees Dekker  
Chairman of the Department of Bionanoscience
- 09:50 **Stefan Hell** (Max Planck Institute Göttingen)  
'Nanoscopy with focused light'
- 10:25 Coffee break
- 10:45 **Jeff Errington** (Newcastle University)  
'Proliferation of bacteria lacking a cell wall'
- 11:25 **Taekjip Ha** (University Illinois Urbana)  
'Single Molecule Biology: One, Two, Three and Four'
- 12:00 Discussion forum on 'Biology, the engineering discipline of the future?'
- 12:40 **Change of location** to the square in front of the new Biobrick lab of the Department of Bionanoscience at the back of the Applied Physics building.
- 12:40 Official opening by Karel Luyben  
Rector Magnificus of the TU Delft
- 12:50 Open air lunch with science theatre, molecular cooking, demo's and tours
- 14:00 Closing of event

