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## Scientific Evening Talk

**Tuesday, February 4th, 2014, 18:30 h**  
Magnus-Haus Berlin, Am Kupfergraben 7, 10117 Berlin

### *The future of Synchrotron Radiation*

**Prof. Dr. Nils Mårtensson**  
*Department of Physics and Astronomy*  
*Uppsala University, Sweden*

The discussion will be chaired by  
Prof. Dr. Wolfgang Eberhardt  
*Scientific Director Magnus-Haus, Berlin*

‘Nachsitzung’ with food and drinks in the ‘Remise’; sponsored by the WE-Heraeus-Foundation; Please register online

[http://www.dpg-physik.de/dpg/magnus/formulare/formular\\_2014-02-04/anmeldung-2014-02-04.html](http://www.dpg-physik.de/dpg/magnus/formulare/formular_2014-02-04/anmeldung-2014-02-04.html)

**Nils Mårtensson** (born 1948) is professor in Physics at Uppsala University in Sweden. He received his PhD in Uppsala (1980) in the group of *K. Siegbahn* (Nobel Prize 1981). His research has been directed towards the electronic structure of solids, surfaces and adsorbate systems studied by synchrotron radiation based techniques, in particular photoelectron spectroscopy.

He was the Director of the Swedish national synchrotron radiation laboratory MAX-lab in Lund between 1997 and 2011. During this time the world-unique MAX IV facility was initiated and funded. He is an honorary doctor at Lund University. He is also a member of the Royal Swedish Academy of Sciences and the Nobel Committee for Physics.

**Abstract:** Synchrotron radiation - a type of very intense x-rays - is a light that has revolutionized many science areas. Several recent Nobel Prizes are the result of the development of modern synchrotron radiation sources. And the development continues. Synchrotron radiation is produced in large accelerators, and such sources are only available at a limited number of places in the world. Berlin and Lund, Sweden, are among those places that host leading synchrotron radiation facilities.

The talk will give some examples of applications taken from the broad range of achievements in the field, ranging from medicine and biology, over paleontology and archeology to nanoscience, materials science and energy research. The talk will also describe how the field is still undergoing rapid progress. New accelerator technologies are being introduced and new scientific instruments are being developed.

Hauptgeschäftsführer  
Dr. Bernhard Nunner

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