

*Séminaire SOLEIL*

## **NSLS-II - a Bright New Synchrotron Source at Brookhaven**

**Professeur WAYNE A.  
HENDRICKSON**

*(Département Biochemistry & Molecular Biophysics – Columbia University college of  
Physicians and Surgeons- HHMI Investigator  
& Directeur Assistant – Sciences du vivant - NSLS II (Brookhaven – USA))*

*Invité par le Dr Jean-Pierre SAMAMA  
(Directeur Scientifique – Division Expériences – SOLEIL)*

**Lundi 16 Mars 2009 à 16h00  
Grand Amphi SOLEIL**

Professor Wayne Hendrickson has made many major contributions both to the methodology for X-ray structure solution for macromolecular crystals (the development of the Multi and Single Wavelength Anomalous Diffraction methods for the solution of the phase problem, the use of Se-met as an almost general solution to the incorporation of heavy atom marker for proteins), and in our knowledge of protein structures.

In particular his work on the interaction of the HIV glycoprotein gp120 with CD4 (a protein from the surface of T cells) explained a mechanism that the virus uses to evade detection by the immune system. He is also currently working on molecular chaperones.

He has won many awards for his contributions to macromolecular crystallography, including the Aminoff Prize (1997) from the Royal Swedish Academy of Sciences, and the Gairdner Foundation International Award (2003).

Prof Hendrickson is a long standing user of the NSLS, and head of the team that developed the beamline X4 (which was, for many years, the world's leading facility for macromolecular structure determination and is still a very productive facility even if overtaken in intensity by more recent undulator based beamlines). He has recently accepted the role (in addition to his other responsibilities) of Assistant Director (Life Sciences) of NSLS II, and will present the status of the NSLS II project.

**Formalités d'entrée** : accès libre dans l'amphi du Pavillon d'Accueil. Si la manifestation a lieu dans le Grand Amphi Soleil du Bâtiment Central, merci de vous munir d'une pièce d'identité (à échanger à l'accueil contre un badge d'accès).

SYNCHROTRON SOLEIL

Division Expériences - L'Orme des merisiers - Saint-Aubin - BP 48 – 91192 GIF S/YVETTE Cedex

<http://www.synchrotron-soleil.fr/portal/page/portal/Soleil/ToutesActualites>

Secrétariat Division Expériences : [sandrine.vasseur@synchrotron-soleil.fr](mailto:sandrine.vasseur@synchrotron-soleil.fr)