

### BEST UNIVERSITY AND COLLEGE FINAL-YEAR THESES

Very keen to encourage high-quality research, the Belgian Nuclear Research Centre grants several awards. SCK·CEN attributes yearly prizes of respectively 1 500 and 1 000 € to the best university and the best college final-year theses carried out in its laboratories.

#### The 2004-2005 award for the best university theses was granted to:

Name **LIESBETH GOMMÉ**  
 Titel Thesis Assessment of space radiation effects on materials for Brillouin phase-conjugated mirrors  
 Universiteit VUB  
 Mentor Andrei Goussarov  
 Promotors Prof. Dr. Ir. Francis Berghmans and Prof. Dr. Ir. Hugo Thienpont, VUB

#### The award for the best final-year theses was granted to:

Name **HANNE DEKIEN**  
 Titel Thesis Ontwerp van een ontmantelingsinstallatie voor bestraalde capsules in een hotcel  
 Hogeschool Hogeschool West-Vlaanderen  
 Mentor Rik-Wouter Bosch  
 Promotors Dr. Ir. Jan Detand, Hogeschool West-Vlaanderen

### SCK·CEN'S SCIENTIFIC AWARD - PROFESSOR ROGER E. VAN GEEN

SCK·CEN allocates every two years 12 500 € to the best original work in nuclear research. The selection is performed by the Belgian National Fund for Scientific Research (NFWO/FNRS).

The 2005 award was allocated to

**DR. STEVEN LAUREYS**  
 Université de Liège

For his work

*"Tomographie par émission de positons chez des patients sévèrement cérébrolésés: fonctionnement cérébral résiduel et plasticité neuronale en coma, état végétatif, état de conscience minimal, syndrome de verrouillage et mort cérébrale"*

### PHD CANDIDATES & POST-DOCTORAL RESEARCHERS - SELECTION 2005

PhD	Name	Research Topic
Instrumentation	Sofie Put	Study and design of radiation tolerant electronic semiconductor devices for communication under high radiation levels.
Microbiologie	Nicolas Morin	Studies on the response to spaceflight related conditions in the cyanobacterium <i>Arthrospira</i> sp. PC8005 using a pangenomic approach.
Reactor materials	Giovanni Bonny	Semi-empirical many-body interatomic potentials for binary alloys based on phase diagrams. Applications to model alloy for RPV steels.
Radiation Protection Research	Nathalie Vanhoudt	Study of biological effects induced following bioaccumulation of U and Cd by <i>Arabidopsis thaliana</i> : applying a multi-biomarkers approach.

Reactor materials	Marlies Lambrecht	Advanced experimental techniques for the comprehension of hardening and embrittlement mechanisms in RPV steels
<b>Post doctoral</b>		
Microbiology	Fabienne Giraudeau	Individual Radio sensitivity: Heritability & Genetics
Reactor materials	Olivier Gregoire	Effect of surface modification of steels on the corrosion kinetics in lead-bismuth eutectic.