



Stockholm University
Centre for Radiation Protection Research

Stockholm University Research Centre for Radiation Protection Research
CRPR

www.crpr-su.se

Summary of activities for 2013

Introduction

With the establishment of CRPR in October 2008, Stockholm University wants to promote excellence and long term national competence in radiation protection research. Stockholm University has a long standing tradition in education and research on the effects of ionizing radiation on man and the environment. The location of CRPR at the Stockholm University provides CRPR with a unique set up of radiation facilities for investigations of effects of low doses and dose rates of low and high LET radiation. CRPR shall promote international cooperation and invite colleagues in Europe to use the low dose and dose rate exposure facilities. Moreover, CRPR represents the SU in the council of the MELODI initiative.

The Centre was created as an independent unit within the Department of Genetics, Microbiology and Toxicology (GMT) at Stockholm University at the Science Faculty of Stockholm University and comprises researchers who are active within the fields of radiobiology, radioecology and radiation dosimetry. In January 2013 GMT fused with two other institutes to form the new Department of Molecular Biosciences, The Wenner-Gren Institute – MBW (<http://www.su.se/mbw/>).

The Centre is headed by a Board of five members, one for each of the three research fields and two others whose competence is judged to be of value for the Centre's operation. The Board members and the chairperson of the board are appointed for three years by the Chancellor based on the recommendations of the Board of the Faculty of Science. The Board has the overall responsibility for the Centre's operation and programme.

The Head of the Centre is appointed for a three year period by the chancellor after hearing the Faculty of Sciences and the board of MBW. The head of the Centre shall not be a member of the board. The Head of the Centre is in charge of the daily activities and should be an employee of the University.

The activities of the Centre are financed from external sources.

From 2013, the webpage of CRPR is <http://www.crpr-su.se>.

Activity during 2013

Head CRPR 2013

Andrzej Wojcik, Professor, MBW, Stockholm University

CRPR board 2013

Eva Forssell-Aronsson, Professor, Chairperson, Dept of Radiation Physics, Sahlgrenska Academy at University of Gothenburg

Eva Simic, Head of research, SSM

Hooshang Nikjoo, Professor, Medical Radiation Physics, Dept of Oncology-Pathology, Karolinska Institutet

Mats Harms-Ringdahl, Professor, MBW Stockholm University

Clare Bradshaw, Associate professor, Department of Ecology, Environment and Plant Sciences, Stockholm University

The CRPR board met 4 times: 04 March 2013; 30 May 2013; 30 September 2013; 04 December 2013. The minutes from the meetings are attached as annexes.

Support has been provided for the CRPR activities by:

Swedish Radiation Safety Authority (SSM)
Swedish Nuclear Fuel and Waste Management Company, SKB
DoReMi, NoE, FP7 Euratom.

Detailed information about the activities can be found at: http://www.crpr-su.se/crpr_events.html

On March 6th 2013, CRPR signed a Memorandum of Understanding with the Hirosaki University, Japan. See pictures at http://www.crpr-su.se/MoU_Hirosaki_images.pdf.

Workshop

Contribution of epigenetic mechanisms that influence susceptibility to radiation-induced cancer

Date: April 24-26 2013

Venue: Swedish Museum of Natural History, Stockholm, Sweden

Seminars

Health Risks of the Fukushima-Daiichi Nuclear Accident

Anssi Auvinen, 04 04 2013

Venue: Stockholm University

Kompetenzverbund Strahlenforschung (KVSE) – the German scientific program to increase the competence in the area of radiation research. History and experience.

Wolfgang-Ulrich Müller, 09 04 2013

Venue: Stockholm University

Bystander effects, adaptive response and individual sensitivity, a challenge to current radiation risk estimates?

William F. Morgan, 15 10 2013

Venue: Stockholm University

The persistent radiological problems at the Fukushima Daiichi nuclear power plant: causes and possible mitigations.

Jan Johansson, 31 10 2013

Venue: Stockholm University

Induction and repair of clustered DNA lesions: what do we know so far?

Alexandros G. Georgakilas, 19 11 2013

Venue: Stockholm University

The Ecosystem Approach (EA): ho can it be used in protection of the environment from toxic substances?

Magnus Tuvendal, Valery Forbes, Ulrik Kautsky, 18 12 2013

Venue: Stockholm University

Other activities 2013

CRPR is one of the founding members of the MELODI association that started 2010 (<http://www.melodi-online.eu/>). MELODI is a European Platform dedicated to low dose radiation risk research. MELODI will propose R&T priorities for Europe in its field of competence and will seek the views of stakeholders on the priorities for research, keep them informed on progress made, and contribute to the dissemination of knowledge. CRPR is represented in MELODI by Mats Harms-Ringdahl. The 2013 MELODI meeting was organised in Brussels, Belgium (07-10 October 2013) and attended by Mats Harms-Ringdahl, Eva Forssell-Aronsson, Siamak Haghdoost and Andrzej Wojcik.

CRPR organized a course in radiation biology (15 credits) at Stockholm University for undergraduate and master students.

CRPR organized a European training course (CELOD, 22nd April -3rd May) at Stockholm University, within the WP3 program of DoReMi.

CRPR co-organised a European training course Environmental Radiobiology (24-28th June 2013), UMB, Norway within the WP3 program of DoReMi.

In June 2013 CRPR joined the 4 year, FP7 Euratom OPERRA project that will exploit the synergies of EURATOM and other EC programmes considering the most relevant joint program areas and mechanisms for funding joint activities in low radiation dose research.

CRPR financially supported the course “Interaction of Radiation with Matter: KI 2694”, organised by Hooshang Nikjoo, 26 - 20 September 2013 at Karolinska Institute.

CRPR financially supported the meeting of SWE-RAYS, 21-13 August 2013, Uppsala University:
<http://swerays.se/workshop2013/index.html>.

CRPR financially supported the seminar “Humans and Ecosystems Over the Coming Millennia: A Biosphere Assessment of Radioactive Waste Disposal in Sweden”, 16th October 2013, KVA.



Andrzej Wojcik

Stockholm, 2013 12 09

Head of CRPR