

**Séminaire ven 6 Mai 2011 11h / Seminar Fri May 6th 2011 11h**

**Conférencier/Lecturer:** Janusz Pudykiewicz

**Sujet/Subject:** Numerical simulation of the long-range atmospheric transport of radioactive and chemical aerosols.  
Scientific reflections and recollections on the 25th anniversary of the Chernobyl nuclear disaster.

**Présentation/Presentation:** Anglais / English

**Lieu/Room:** Salle des vents (Dorval)

**wiki:** [https://wiki.cmc.ec.gc.ca/wiki/RPN\\_Seminars](https://wiki.cmc.ec.gc.ca/wiki/RPN_Seminars)

**iweb:** <http://web-mrb.cmc.ec.gc.ca/mrb/rpn/SEM/>

**web:** <http://collaboration.cmc.ec.gc.ca/science/rpn/SEM/index.php>

**Abstract**

The events which took place 25 years ago in Chernobyl have affected significantly our perception of the role of atmospheric sciences in predicting specific consequences of environmental accidents. The initial numerical simulation of dispersion of nuclear debris performed in the aftermath of the reactor explosion in Ukraine on April 26, 1986, led to the extensive developments of new numerical techniques and models for atmospheric chemistry. The scientific work in this area have also influenced many aspects of the international cooperation in the field of monitoring of radionuclides in the atmosphere. The summary of all these developments as well as the most recent applications and projections into the future will be discussed during the seminar. The talk will be tailored to address the interests of researchers working with numerical methods, as well as the concerns of those working in the fields of atmospheric chemistry, aerosol science, cloud physics and radionuclide monitoring.