



## Canadian Nuclear Society / Société Nucléaire Canadienne

Chalk River Branch, c/o Dr. Blair P. Bromley, AECL-Chalk River Laboratories, Chalk River, ON K0J 1J0

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*“Supporting nuclear science and technology for over 25 years”  
“plus de 25 ans de promotion de la science et de la technologie nucléaires”*

### Ernest Rutherford and the Nobel Prize

The Chalk River Branch of the Canadian Nuclear Society is pleased to welcome Dr. John Campbell, who will speak on “Ernest Rutherford and the Nobel Prize”.

2008 is the centennial of the Nobel Prize awarded to Ernest Rutherford "for his investigations into the disintegration of the elements, and the chemistry of radioactive substances."

It is seldom appreciated that Rutherford carried out this research whilst at McGill University from 1898 to 1907, making him the first award of a Nobel Prize for research carried out in Canada.

This presentation will describe that work, related work before and after, and why one of the greatest physicists of all time never received a Nobel Prize in Physics. After all, Rutherford later showed that the atom had a nuclear structure, developed a detector to detect individual radioactive decays, proposed that the neutron had to exist, was the first to split the atom, and led the group who built the first particle accelerator to artificially induce a nuclear reaction.

John Campbell, the author of Rutherford Scientist Supreme and [www.rutherford.org.nz](http://www.rutherford.org.nz), has recently retired from teaching physics at the University of Canterbury, New Zealand, where Rutherford obtained his first three degrees. Dr. Campbell was convenor of the Rutherford Birthplace Project in New Zealand, initiated and runs the Ask-A-Scientist programme, and has several awards for communicating science to the public. His current project is the first ever documentary on Rutherford. The Canadian Nuclear Society is the only Canadian Principal Patron of this 3-part series.

The Chalk River Branch of the Canadian Nuclear Society will also hold its Annual General Meeting on this day at 7:00 pm. The annual update on Branch activities and finances will be provided to members. There will be a transition in leadership and the election of the new Branch Executive for 2008/2009. Several positions are open, and members are encouraged to run. Joining the executive is a great way to participate and make a difference.



**Annual General Meeting  
7:00 PM**

**John Campbell, B.Sc. (Hons), M.N.Z.I.P., PhD  
7:30 PM**

**Monday, October 20, 2008**

**Bennett / Mackenzie Room, J.L. Gray Centre**

**(Entry via rear security entrance)**

*Refreshments will be served – ALL ARE WELCOME*

*Further information: Blair Bromley at 584-8811 Ext. 43676, or 613-584-1518*