

## INTERNATIONAL WATER ASSOCIATION GLOBAL HONOUR AWARD



**Rajeshwar Dayal Tyagi**, research professor at the INRS – Eau Terre Environnement Research Center, Québec City, Canada, is the recipient of a 2010 Global Honour Award for Applied Research from the International Water Association. The award recognizes his work on the bioconversion of wastewater and sewage sludge into high-value-added products. These prestigious awards are given every two years in recognition of projects

from around the world that promote effective, sustainable approaches to water management. The Global Honour Award recognizes the importance of Prof. Tyagi's research in developing environmentally friendly and cost-effective processes for treating wastewater, wastewater sludge, and residual biomass to produce enzymes, bioinsecticides, bioherbicides, biofungicides, bioinoculants, and bioplastics. Along with his research team, Prof. Tyagi has made significant advances in environmental biotechnology by creating valuable products from such waste materials, which are normally difficult and expensive to dispose of. Further, using this biomass as raw material can reduce the cost of producing increasingly sought-after biomaterials by 40–60%. Tyagi's work was also recently honored by the American Academy of Environmental Engineers, who awarded him the University Research Grand Prize in May 2010.

## ROYAL SOCIETY OF CANADA RECOGNIZES EARTH SCIENTISTS

The Royal Society of Canada (RSC) is the senior national body grouping distinguished Canadian scholars, artists and scientists. It consists of nearly 2000 Fellows—men and women who are selected by their peers for outstanding contributions in the natural and social sciences, arts, and humanities. Its primary objective is to promote learning and research in the arts and sciences.

Four Earth scientists were recognized at the Society's Induction and Awards Ceremony on November 27, 2010.

### RSC Bancroft Medal to Frank Hawthorne



**Frank C. Hawthorne** (Department of Geological Sciences, University of Manitoba) is the recipient of the Bancroft Medal, awarded every two years for publications, instruction and research in the Earth sciences that have conspicuously contributed to public understanding and appreciation of the subject. Frank Hawthorne has investigated some of the most fundamental problems in mineralogy and has made major

contributions to our understanding of the factors affecting atomic arrangements in minerals. He is well known for his ability to synthesize knowledge and present the essentials in a clear and succinct fashion to the broader community.

### RSC New Fellows

Rodney C. Ewing (Department of Geological Sciences, University of Michigan) was inducted as a foreign Fellow of the Royal Society of Canada, while Donald Bruce Dingwell (Experimental Geosciences, University of Munich), and Guy Narbonne (Queen's University, Kingston) were inducted as Fellows. We reproduce the citations below.



Photo: Miv Photography

**Rodney C. Ewing** is recognized as the world's leading scientist on the geochemistry of uranium and the role of uranium in all aspects of nuclear power, from nuclear reactor processes to safe storage of radiogenic waste. With his intellectual capabilities and scientific expertise, he has made major and fundamental scientific advances in Earth and environmental sciences. He has tirelessly pursued geological solutions to the problem of nuclear waste disposal, almost single-handedly impressing on the materials science community and government agencies the importance of this approach. His work represents the most creative and sustained scientific initiative in this field since its inception.



Photo: Miv Photography

**Donald B. Dingwell** is renowned for establishing the experimental investigation of melts and magma as a vital component of Earth sciences, with implications for Earth evolution, element enrichment, volcanic mitigation, and the physical chemistry of the liquid state.



Photo: Miv Photography

**Guy Narbonne** is a paleontologist who is internationally recognized for his research on the origin and early evolution of animals. His descriptions of the biology, life strategies, ecology and history of Ediacaran biota have profoundly influenced our understanding of evolution during this critical period in Earth history.