

# 50TH ANNUAL MEETING CANADIAN SOCIETY OF ZOOLOGISTS UNIVERSITY OF OTTAWA

Monday, May 16<sup>th</sup> to Friday, May 20<sup>th</sup>, 2011 at the **University of Ottawa**.

## Plenary talks

### Fry Medal – Dr. Ken Storey



Ken Storey is a Professor of Biochemistry and holds the Canada Research Chair in Molecular Physiology at Carleton University. He received his B.Sc. from the University of Calgary and his Ph.D. Zoology from the University of British Columbia. Anyone's career relies on 'the turn of a friendly card' and for Ken the key event was an accidental landing in the lab of Peter Hochachka that both set him loose on a grand ride for life through the wide-open field of biochemical adaptation and added a key stabilizer (wife Janet). Since then Ken has studied how animals work at the molecular level exploring metabolic, enzyme and gene adaptations that support survival at environmental extremes. With nearly 600 publications to date his lab has tackled metabolic regulation in many forms ranging from aerobic muscle

metabolism in fast-flying insects and fast-swimming squid to anoxia tolerance and antioxidant defense in turtles, fish and marine mollusks, from estivation by toads and snails under hot arid conditions to winter hibernation by ground squirrels and bats, and to perhaps his best-known work on whole body freezing survival by Canadian frogs, turtles and insects. Much of his research has followed the creed of "synthetic intuition" and has been unified by the identification of common principles of metabolic control that are used across phylogeny to coordinate strong metabolic rate depression as an energy-saving strategy under harsh environmental conditions. Ken's research has been enriched by generous mentors, by intriguing collaborators around the world, and by the hard work of more than 150 postdocs, graduate and undergraduate students that have enlivened his lab. Ken has received multiple awards for his research including recently the 2007 Distinguished Alumni Award from the University of Calgary and the 2010 Flavelle medal in biological science from the Royal Society of Canada. For more information visit [www.carleton.ca/~kbstorey](http://www.carleton.ca/~kbstorey).