

Thad Alan Harroun

tharroun@brocku.ca
Phone: 905-688-5550 x5905
Fax: 905-984-4857

Brock University
Department of Physics
500 Glenridge Ave.
St. Catharines, Ontario, L2S 3A1, Canada

Current

January 2006-Present

Associate Professor
Department of Physics, Brock University

The focus of my research is on membrane biophysics. I have been chiefly interested in determining the structural characteristics of membrane active peptides such as gramicidin, melittin, islet amyloid polypeptide, and various viral fusion peptides. In addition, I am interested in the effects of perturbations such as proteins, substrates, temperature, and pressure have on the structural and phase behaviour of lipids.

My experiments are centred on neutron diffraction, however we carry out additional experiments which augment our neutron work. Among our capabilities is differential scanning calorimeter, X-ray diffraction, and circular dichroism.

Professional

2008-Present

Treasurer/Secretary, Canadian Institute for Neutron Scattering
Research Associate, Department of Physics, University of Guelph
NSERC Visiting Fellow - Canadian Neutron Beam Centre
National Research Council Canada

2005

2002-2005

BBSRC Post-Doctoral Research Fellow,
University of Edinburgh

1999-2002

1999-2000

W. M. Keck pre-doctoral fellowship in computational biology,
Rice University

Education

June 2000

PhD, Applied Physics, Rice University, Houston, Texas

June 1997

MS, Applied Physics, Rice University

June 1993

BA, Physics, University of California, Berkeley

Publications

Overall since 1996, I have authored or coauthored 48 peer-reviewed journal articles, 2 book chapters, and 4 invited articles in the fields of membrane biophysics and neutron scattering. These articles have been cited over 1900 times, with an *h*-index of 20. (ISI Web of Science, October 2012)

Recent Invited Presentations

November 2012

Brockhouse Institute for Material Research, McMaster University

July 2012

American Conference on Neutron Scattering, Georgetown University

May 2012

Brock/Kobe Workshop on Computational Science, Kobe University, Japan