

Curriculum Vitae

John R. Dutcher

Professor, Department of Physics
Canada Research Chair in Soft Matter and Biological Physics
Director, Nanoscience Program
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Founder, Mirexus Biotechnologies
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Degrees

B.Sc. (Engineering-Physics, cooperative education), Dalhousie University, 1983
M.Sc. (Physics), University of British Columbia, 1985
Ph.D. (Physics), Simon Fraser University, 1989

Honours and Awards

Governor General's Gold Medal, Dalhousie University, 1983
NSERC Postgraduate Scholarships, University of British Columbia and Simon Fraser University, 1983 - 1988
NSERC Postdoctoral Fellowship, Optical Sciences Center, University of Arizona, Nov 1988 - Aug 1990
Premier's Research Excellence Award, Province of Ontario, 1999
Presidential Distinguished Professor Award, University of Guelph, 2000
Tier I (Senior) Canada Research Chair in Soft Matter Physics, University of Guelph, 2006-2013
Tier 1 (Senior) Canada Research Chair in Soft Matter and Biological Physics, University of Guelph, 2013-2020
Fellow of the American Physical Society, 2007

Major Research Interests

Physics of soft materials; surfaces and interfaces, bionanomaterials and biopolymers; polymer physics; viscoelasticity; bacterial biophysics; proteins and peptides; thin film instabilities; self-assembly and pattern formation

Surface-sensitive probes of large molecules at surfaces such as atomic force microscopy, fluorescence microscopy, light scattering, ellipsometry, surface plasmon resonance, infrared spectroscopy, microbalance & differential pressure techniques

Employment

Professor, Department of Physics, Univ. of Guelph, July 1999 to present

Associate Professor, Department of Physics, Univ. of Guelph, July 1995 - June 1999

Assistant Professor, Department of Physics, Univ. of Guelph, Sept 1990 - June 1995

NSERC Postdoctoral Fellow, Optical Sciences Center, Univ. of Arizona, Nov 1988 - Aug 1990

Highlights of Professional Activities

University

Director, Centre for Food and Soft Materials Science, University of Guelph, 1999 - 2010

Director, Nanoscience Program, University of Guelph, 2010 - present

Canada

Theme Leader, Science & Engineering of Soft Materials Theme, Advanced Foods & Materials Network, national Network of Centres of Excellence, 2003 - 2009

Member, Research Management Committee, Advanced Foods & Materials Network, national Network of Centres of Excellence, 2003 - 2010

Member and Chair (2007-08), Condensed Matter Physics Grant Selection Committee, NSERC, 2005 - 2008

Chair of CAP-NSERC Liaison Committee, Canadian Association of Physicists, 2009 - 2014

Director of Academic Affairs, Canadian Association of Physicists, 2009 - 2012

International

Editor, Journal of Polymer Science Part B: Polymer Physics, 2008 - 2010

Special Advisory Editor, Journal of Polymer Science Part B: Polymer Physics, 2010 - present

Member, Editorial Advisory Board, Soft Matter Journal, 2008 - present

Member, Editorial Advisory Board, Journal of Polymer Science Part B: Polymer Physics, 2002 - 2008

Member, Editorial Advisory Board, Colloids and Surfaces B, 2010 - present

Member, Editorial Advisory Board, Scientific Reports, 2014 - present

Guest Editor, Special Issue on Dynamics of Confined Polymers, Journal of Polymer Science Part B: Polymer Physics, October 2006

Industry

Founder, Mirexus Biotechnologies; Director and Chief Science Officer, 2015-2016; Chairman of the Board, 2013-2015; Interim CEO, 2010-2013 (Mirexus is commercializing polysaccharide nanoparticles discovered in my laboratory)

Consulting: DuPont Performance Coatings, Nexia Biotechnologies, Dow Chemical Company

Professional Societies

Member of American Physical Society, Canadian Association of Physicists, Materials Research Society, Biophysical Society, American Society for Microbiology, Canadian Society for Chemistry

Citation Index Highlights

According to Google Scholar, as of May 2017,

- my publications have received a total of 5826 citations.

- my H-index is 36.

Conference Organization

I have served as organizer/co-organizer of 9 international meetings/symposia, and I have served as session chair at 20 international scientific meetings.

Publications and Invited Talks

Refereed Publications: 115

Books: 1

Patents: 4

Invited Conference Presentations: 90

Invited Seminars at Research Institutions: 105

A detailed CV is available upon request.