Physics

Department Information

• **Interim Department Chair:**
  Erik Hobbie, Ph.D.

• **Graduate Coordinator:**
  Mila Kryjevskaia, Ph.D.

• **Department Location:**
  218 South Engineering

• **Department Phone:**
  (701) 231-8974

• **Department Web Site:**
  www.ndsu.edu/physics/ (http://www.ndsu.edu/physics/)

• **Application Deadline:**
  For U.S. students, one month before registration; for international students, March 1 for fall semester and September 1 for spring/summer semester.

• **Credential Offered:**
  Ph.D., M.S., Accelerated M.S.

• **Test Requirement:**
  GRE (general and subject recommended)

• **English Proficiency Requirements:**
  RA - TOEFL 71, IELTS 6, Duolingo 105; TA Grader - TOEFL 79, IELTS 6.5, Duolingo 110; TA Instructor - TOEFL 81, IELTS 7, Duolingo 115

Warren Christensen, Ph.D.
Iowa State University, 2007
Postdoctoral: University of Maine, 2007-2009
Research Interests: Physics Education Research, Student Content Understanding, Curriculum Development

Yongki Choi, Ph.D.
The City University of New York, 2010
Postdoctoral: University of California Irvine, 2010-2014
Research Interests: Nano-Biophysics, Nano-electronics, Single-Molecule science

Andrew B. Croll, Ph.D.
McMaster University, 2009
Postdoctoral: University of Massachusetts, 2008-2010
Research Interests: Polymers, Diblock Copolymers, Thin Films, Pattern Formation, Mechanics

Alan R. Denton, Ph.D., Department Chair
Cornell University, 1991
Postdoctoral: University of Guelph, 1991-94; Technical University of Vienna, 1994-95, Research Center Julich, 1996-98
Research Interests: Soft Condensed Matter Theory, Computational Physics

Eric K. Hobbie, Ph.D.
University of Minnesota, 1990
Research Interests: Nanotechnology, Nanoparticles, Polymers, Optics and Rheology

Andrei Kryjevski, Ph.D.
University of Washington, 2004
Research Interests: First-Principles Numerical Techniques for Fermi Systems, Electronic Structure of Nanoparticles

Mila Kryjevskaia, Ph.D., Graduate Program Coordinator
University of Washington, 2008
Research Interest: Physics Education Research

Sylvio May, Ph.D.
Friedrich-Schiller University, 1996
Postdoctoral: Hebrew University Jerusalem, 1997-98
Research Interests: Physics of Lipid Membranes, Biophysics, Ionic Liquids, Drug delivery
Kyle Strand, Ph.D.
North Dakota State University, 2022
Research Interests: Computational Soft Matter

Alexander J. Wagner, Ph.D.
University of Oxford, 1997
Research Interests: Computational Soft Matter, Phase Separation, Diffusion, Interfaces Physics

Emeritus

Ghazi Q. Hassoun, Ph.D.
University of Minnesota, 1963
Postdoctoral: University of Michigan, 1963-65
Research Interests: Foundations of Quantum Mechanics

Daniel M Kroll, Ph.D.
University of Chicago, 1973
Research Interests: Theoretical and Computational Modeling of Complex Fluids and Biomembranes

Charles A. Sawicki, Ph.D.
Cornell University, 1975
Postdoctoral; Cornell University, 1975-79
Research Interests: Acoustics, Biophysics, Geophysics

Mahendra K. Sinha, Ph.D.
Pennsylvania State University, 1961
Postdoctoral: National Research Council (Ottawa), 1964-66
Research Interests: Field Emission and Field-Ion Microscopy Adjunct

Orven Swenson, Ph.D.
Air Force Institute of Technology, 1982
Research Interests: Laser Materials Processing, Optics Education

Adjunct Faculty

Khang Hoang, Ph.D.
Michigan State University, 2007
Research Interests: Materials theory, Defect physics, Solid state Ionics

Scott A. Wood, Ph.D.
Princeton University, 1985
Research Interests: Geology