

Physics

Department Information

- **Interim Department Chair:**
Erik Hobbie, Ph.D.
- **Graduate Coordinator:**
Mila Kryjevskaja, 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.
- **Credentialed 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 Kryjevskaja, 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

Postdoctoral: MIT, 1998-2000, Edinburgh, 2000-2002

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