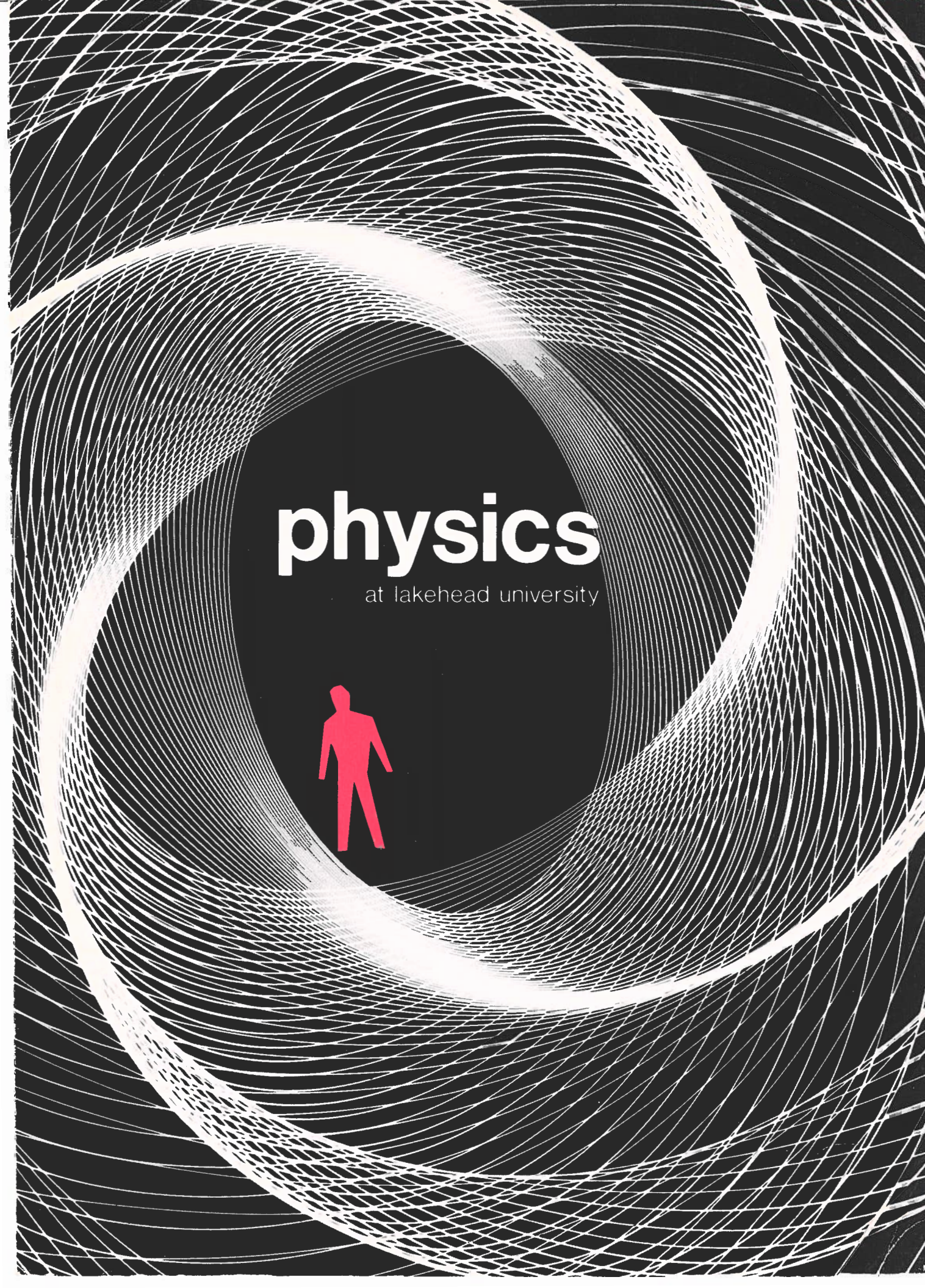




# physics

at lakehead university



# Physics at Lakehead A Challenge to You!

## *What is Physics?*

Physics is a systematic study of the properties of all things, from the nucleus to the stars. There are only a few fundamental laws. The physicist is not required to memorize a large body of facts, but only to pit his mind against ideas. His theory is only meaningful if it makes correct predictions about the physical world. A great deal of ingenuity is required to devise experiments to verify these predictions.

## *Is Physics useful to society?*

A study of Physics provides insight into technology, natural phenomena and the basic nature of things. In contrast to other disciplines which study specific areas in detail, Physics gives a broad understanding of our world. It teaches how to think logically and objectively about any given problem. This, combined with the proper design and interpretation of experiments, is the essence of the scientific method. The power of this method when applied to physical science is indisputable, but its application to social problems is fairly recent. A physicist can clearly contribute to the technological advancement of society; he is also fitted to cope with related social problems.

## *Why study at Lakehead?*

The primary concern of the Physics Department at Lakehead is the development of a sound and interesting undergraduate program. Because the number of students is relatively small, instructors can give each student individual attention. Personal contact is also emphasized in the labs where students are encouraged to do progressively more independent work.

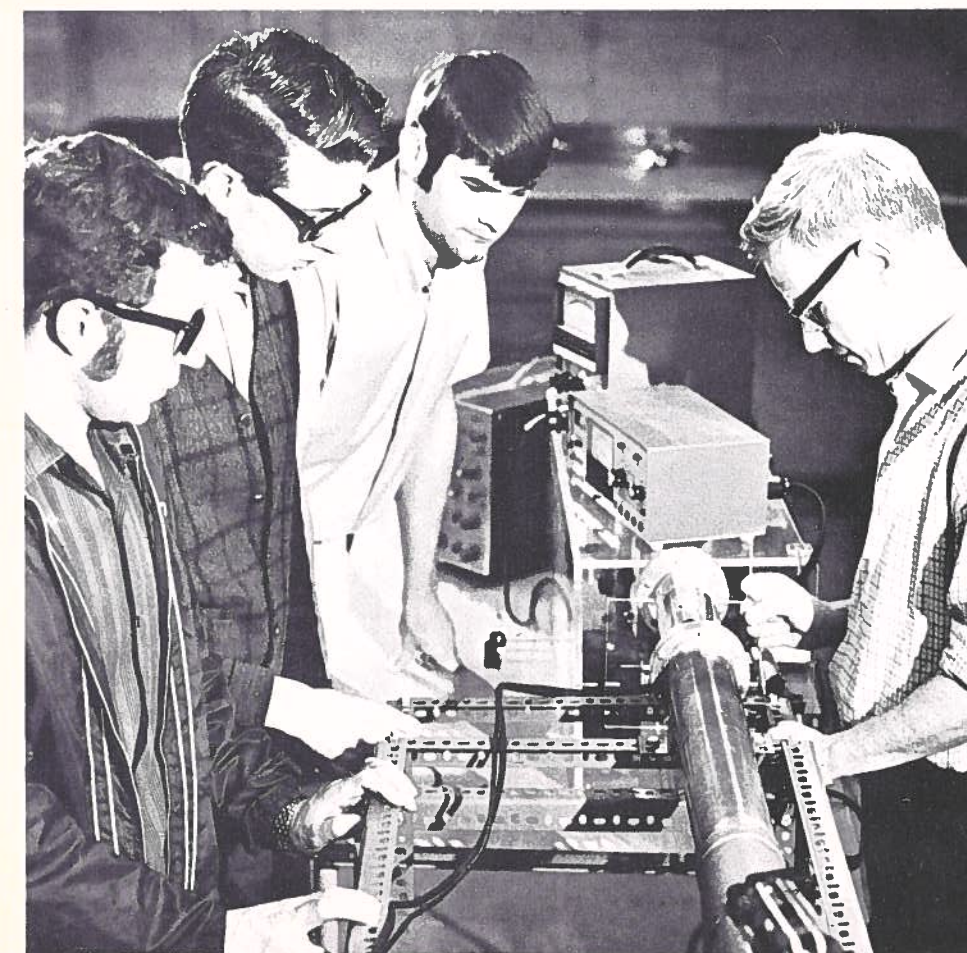
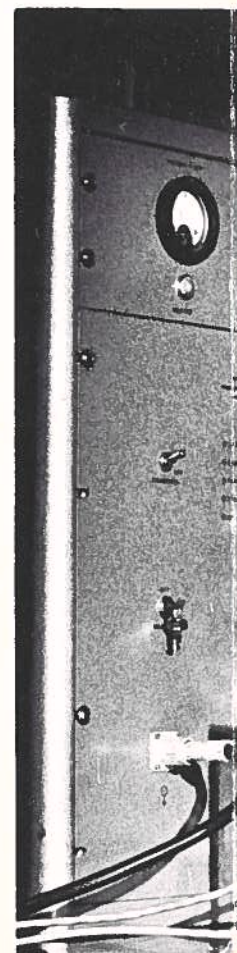
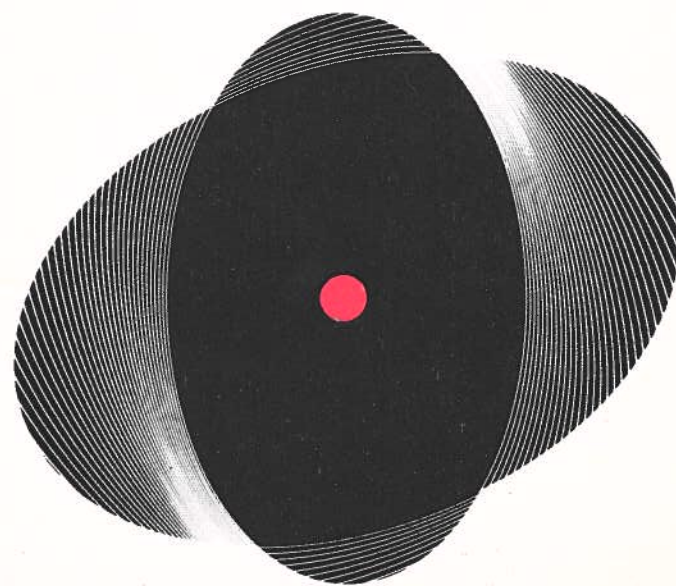
The Lakehead area offers many opportunities to people who enjoy the out-of-doors and athletics. It is one of the largest accessible wilderness areas in Canada and offers a wonderful opportunity to those who enjoy fishing, hunting and canoeing. Excellent facilities exist for skiing, golf, curling and many other sports.

## *How do I get started?*

You may select a first-year program that is common to physics, mathematics and chemistry. Thus you need not choose between these three subjects until the beginning of second year.

For further information concerning Physics at Lakehead and enrolment write to:

Dr. L. Hastings  
Department of Physics  
Lakehead University  
Port Arthur, Ontario



### ***What about a career?***

This education, which you may undertake for the challenge and insight it offers, also provides a professional training. Qualified physics teachers are in great demand. If you do postgraduate work, research in the area of your choice and university teaching are obvious possibilities. Here are some other careers to which a bachelor's degree in physics opens the door:

- Meteorology
- Astronomy and cosmology
- Computer programming
- Biophysics
- Geophysics
- Atomic energy
- Radiation physics
- Philosophy of science
- Industrial research and development
- Sale of scientific equipment
- Instrumentation
- Theoretical chemistry
- Graduate work in many other disciplines

### ***Should I study physics?***

Do you find the challenge of understanding the world exciting? Do you enjoy working with your hands or contemplating the universe? Are you a bit of a skeptic when you are told "the facts"? Can you do mathematics? If the answers to these questions are yes, then you **SHOULD** study physics.

### ***What will the course be like?***

It won't be easy. A program in physics offers few options. Three years for a pass B.Sc. or four years for an honors degree is required for a rigorous training in physical theory, laboratory technique and mathematics. One of the main purposes is to train the mind to think objectively and systematically. This is a talent that is invaluable in any area. Be prepared to think for yourself, devise your own experiments and come up with your own answers.

