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## Department of Physics Records

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# Department of Physics Records

## Finding Aid

South Dakota State University Archives and Special Collections  
Briggs Library (SBL) Room 241 Box 2114  
1300 North Campus Drive  
Brookings, SD 57007  
Phone: 605-688-5094  
Email: [arcrefs@sdstate.edu](mailto:arcrefs@sdstate.edu)

## Collection Summary

### *Identifier*

UA 8.9

### *Title*

Jerome J. Lohr College of Engineering. Department of Physics Records.

### *Creator*

Department of Physics, Jerome J. Lohr College of Engineering, South Dakota State University

### *Dates*

2007

### *Extent*

0.21 linear feet -- 1 small document case

### *Language*

English

### *Repository*

South Dakota State University Archives and Special Collections, Hilton M. Briggs Library, Brookings, South Dakota.

### *Access note*

This collection is open to researchers without restrictions. The materials in the Archives do not circulate and may be used in-house only.

### *Preferred Citation*

*Name of item.* Jerome J. Lohr College of Engineering. Department of Physics Records. UA 8.9. South Dakota State University Archives and Special Collections, Hilton M. Briggs Library, Brookings, South Dakota.

### *Abstract*

The Department of Physics offers the B.S. in Physics in which students choose one of four elective groups: professional physics, health/medical physics, applied physics, and flexible emphasis. The collection is composed of a report for sabbatical during the spring 2007 semester by Dr. Joel Rauber.

## **Historical Note**

The Physics Department has three main objectives in its program offerings: (1) to serve students interested in engineering as a profession; (2) to serve students from various colleges within the university who need a basic understanding of physics; and (3) to serve students with an interest in a professional future in physics. The department is composed of appropriate professional staff, facilities, and equipment to support these objectives.

The curriculum in Engineering Physics is built around a strong core of physics courses complemented by courses from engineering departments. Students can earn an Engineering Physics degree with an emphasis in either mechanical or electrical engineering by selecting appropriate courses from one of these two areas. This major is designed to give students the ability to apply new research developments to pressing problems of society and is most attractive for those students interested in industrial employment. Graduates with an engineering physics degree typically enter employment as an engineer or continue graduate work in a field such as nuclear engineering, electrical engineering, mechanical engineering or aerospace engineering.

The curriculum in Physics is an option similar to the Engineering Physics curriculum that is not necessarily directed toward engineering. Not requiring the depth of engineering courses allows the Physics curriculum more flexibility to accommodate a wide range of student interests. Students interested in a professional physics career, graduate school, medical school, secondary physics education, meteorology, or a multitude of related areas can choose this option. This flexibility is achieved by building a curriculum around a core of 28 required semester credits in physics. Listings of elective

courses for various technical careers are available in the Physics Department office.

The Department of Physics is now administratively located in the College of Arts and Sciences.

## **Contents Note**

This collection is composed of a report for sabbatical during the spring 2007 semester by Dr. Joel Rauber. Included is a copy of the first two pages of the sabbatical leave request and a copy of the Physics 211 Laboratory Manual that Dr. Rauber rewrote during his sabbatical. He also revamped a few of the laboratories to take into account current equipment and possible improvements.

## **Key Words**

Rauber, Joel

South Dakota State University. Department of Physics.

## **Administrative Information**

### *Conditions Governing Access*

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*Arranged and Described by*

Crystal J. Gamradt, 2008 August 20.

## **Container List**

<b>Box</b>	<b>Folder</b>	<b>Description</b>	<b>Date(s)</b>
1	1	Report for sabbatical during Spring 2007: Dr. Joel Rauber, Dept. of Physics	2007