



# Rothen (Alexandre) papers

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## Summary Information

<b>Repository:</b>	Rockefeller Archive Center
<b>Creator - aut:</b>	Rothen, Alexandre
<b>Creator:</b>	Rockefeller Institute for Medical Research
<b>Creator:</b>	Rockefeller University
<b>Title:</b>	Alexandre Rothen papers, Rockefeller University Faculty
<b>ID:</b>	FA193
<b>Date [inclusive]:</b>	1928-1987, undated
<b>Physical Description:</b>	0.38 Cubic Feet 2 boxes and 2 volumes
<b>General Physical Description note:</b>	2 boxes and 2 volumes
<b>Language of the Material:</b>	English

### Preferred Citation

Information regarding the Rockefeller Archive Center's preferred elements and forms of citation can be found at <http://www.rockarch.org/research/citations.php>

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## Biographical/Historical note

Alexandre Rothen, physical chemist at The Rockefeller University (formerly The Rockefeller Institute for Medical Research) from 1927-1970. He built one of the first Polariscopes for the study of rotatory dispersion in the ultraviolet range and developed the air-driven centrifuge (originally designed by Pickels of the Rockefeller Foundation). From 1942 he was interested in monomolecular layers and published many papers on chemical interactions at a liquid-solid interface. He built the first ellipsometer with a half shadow device.

### Biographical note

1900

Born January 25 Geneva, Switzerland

1924	D. Sc. Chemical Engineering, University of Geneva
1926	Ph. D. Physical Chemistry University of Geneva
1926-1927	Volunteer in P.A.T. Levene laboratory, Rockefeller Institute for Medical Research, New York City.
1928-1936	Assistant RIMR. Physical chemist in Levene lab.
1936-1947	Associate in Physical Chemistry RIMR
1947-1966	Associate member and Associate Professor, Rockefeller University
1966	Prof
1970-	Professor Emeritus (Home: 1801 Mont-Pélerin) Vaud Switzerland
1987	Died December 12

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## Scope and Contents note

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Biography, Photographs, Bibliography, Collected Reprints.

The papers consist primarily of materials prepared by Alexandre Rothen for press information and include photocopy of news stories 1960-1970. The copies of correspondence and the summaries of experimental work deal mainly with Dr. Rothen's assumption in 1948 (later shown experimentally) that a "specific long-range interaction took place across the membrane between the condensed film of protein immobilized on the slide and antibodies or trypsin molecules", and the violent criticism of this work and the fact that later, the priority of his work did not receive recognition.

Also includes a short biography written by Dr. Rothen.

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## Arrangement

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As received.

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## File Plan note

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Former Classification: I 450 R743

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## Administrative Information

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### Publication Statement

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### Conditions Governing Use

Collection is open for scholarly research.

### Immediate Source of Acquisition

Date received or inventoried: June 1975; except for: Faculty and Personal Files (Box 2) which was received from Faculty Administration office on March 25, 1988; and folder of figures, graphs, and tables which was received December 1983 from T.P. King.

## Conditions Governing Access note

Access to this collection is restricted pending permission from Rockefeller University.

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## Controlled Access Headings

- Enzymes
- Immunoglobulins
- Biochemistry
- Trypsin
- Chemistry
- Life sciences
- Cell and biomolecular sciences
- Medical education
- Medical research
- Proteins
- Biology -- Research

## Collection Inventory

Title/Description	Instances	
Reprints - Tryptic action across a membrane. Physiological chemistry and physics 11 (1979) 481-489, 1979	box 1	folder 1
Reprints - Influence of metallic shields on presumably cosmic radiation affecting surfaces of nickel-plated slides used in immunological studies. Physiological chemistry and physics 11 (1979) 193-204, 1979	box 1	folder 2
MS: Alexandre Rothen, "An Exact Twenty-Four Hour Periodicity in the Superficial Topography of Nickel Plated Glass Slides Presumably Caused by a Solar Radiation of Great Penetration", circa 1983	box 1	folder 3

### Scope and Contents note

With handwritten letter to Mrs. [Sonya W.] Mirsky, 15 July 1983.

Faculty and Personal Files, 1928-1987	box 2	folder 1
Faculty and Personal Files, 1928-1987	box 2	folder 2

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Photographs, 1929, 1958, 1966, 1949, 1970

box 2

## **Scope and Contents**

Emeritus (1970?)

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Figures, graphs, and tables

Separated Materials:

### **Separated Materials**

Relocated to map case

Conditions Governing Access:

### **Conditions Governing Access**

Due to the oversize nature and potentially brittle condition of the contents of this collection, special arrangements may be required in order to view materials. Individual items may be restricted due to preservation concerns.

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Collected Reprints

Separated Materials:

### **Separated Materials**

Relocated to RAC library 8/9/88