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Manuscript Collection

Finding Aid

➤ Albertine Krohn Papers, 1945 to 1970 ◀  
UM 39

**Size:** 1.25 linear feet

**Provenance:** Gordon Parker, Department of Chemistry, 10/20/86

**Access:** Open

**Related Collections:**

**Processing Note:**

**Condition:** Good

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**Location:** R 1/ S G

**Completed by:** Karen D. Adinolfi

### **Biographical/Historical Sketch**

Dr. Albertine Krohn, a University of Toledo professor emerita of chemistry, was born in Toledo, Ohio on November 28, 1924. She was educated at the University of Toledo, graduating first in her class with a Bachelor of Science in Chemistry in 1946. She pursued her education further, earning a Master of Science in Chemistry from both the University of Toledo in 1949 and the University of Michigan in 1951. Five years later, she obtained her doctoral degree in Physical Chemistry from the University of Michigan.

Dr. Krohn then went on to teaching chemistry which became one of her main interests. She served as a member of the Examinations Committee of the Division of Chemical Education and in the Northwestern Ohio Chemistry Teacher's Association. One of Dr. Krohn's most notable accomplishments was the development of the Toledo Chemistry Placement Examination with Dr. Nelson Hovey. The purpose of this test was to discern which freshmen would succeed in the regular first-year chemistry and which ones would need remedial classes. This examination garnered wide attention throughout the profession and over 20,000 copies were used throughout this country and the world.

In addition to her teaching, Dr. Krohn had many research interests. Her primary area of study was electroplating and electrochemistry. Throughout her career, she received several research grants totaling \$4750. She published ten articles in professional journals, co-authored one book, contributed a chapter to another, and wrote nine book reviews. Dr. Krohn was a regular presenter at professional conferences, especially the American Chemical Society and Phi Kappa Phi.

Dr. Krohn was a member of Phi Kappa Phi (serving as national president and chairman of the board of directors), Phi Mu Epsilon (mathematics honor society), Delta Kappa Gamma (women in education), and Sigma Xi (Scientific Research Honor Society). She received the Gold T Award from the Alumni Association in 1973, the highest award any alumnus could receive. Dr. Krohn was listed in *American Men and Women of Science, Who's Who in the Midwest*, and *Outstanding Educators of America 1972*.

She served her profession by her membership in professional societies, such as the American Chemical Society (having held every local office), the Electrochemical Society (fellow), and the Toledo Society for Engineering Education.

Her hobbies included music and traveling, serving the former in the St. Paul's Lutheran Church Choir and the Toledo Sympathy Coral, and the latter when she serves as national President of Phi Kappa Phi. Dr. Albertine Krohn retired from teaching in 1985, receiving emerita status. She died later that year on December 31, 1985.

**Albertine Krohn  
Papers, 1945-1970**

**Scope and Content Note**

Collection contains material and slides relating to the Toledo Chemistry Placement Examination written by Albertine Krohn and Nelson Hovey in the Department of Chemistry. Slides and exam materials are arranged by subject.

Albertine Krohn  
Papers, 1945-1970

Folder List

Box	Folder	Item Description
1	1	Toledo Chemistry Placement Exam- Misc.
1	2	Toledo Chemistry Placement Exam- Evaluation 1965
1	3	Toledo Chemistry Placement Exam- Order Form 1959
1	4	Toledo Chemistry Placement Exam- Correspondence 1957-1968
1	5	Toledo Chemistry Placement Exam- Stats. 1959-1960
1	6	Toledo Chemistry Placement Exam- Copyright Forms
2	1	Slide- Beaker and Misc. Equipment
2	2	Slide- Microscope
2	3	Slide- Equipment
2	4	Slide- Equipment
2	5	Slide- Oxidation Reduction Potential Chart
2	6	Slide- Dynamic Cathode Potentials Chart (air)
2	7	Slide- Dynamic Cathode Potentials Chart (nitrogen)
2	8	Slide- Compositions of the Deposits Chart (air)
2	9	Slide- Compositions of the Deposits Chart (nitrogen)
2	10	Slide- Correlation of Composition with Cathode Poten
2	11	Slide- Absorption Spectra Chart (air)
2	12	Slide- Absorption Spectra Chart (nitrogen)
2	13	Slide- Comparison of Absorption Spectra Chart
2	14	Slide- Correlation Between Oxidation Chart
2	2a	Slide- Machined Output commutator (Fig. 2)
2	3a	Slide- Commutator and Shaft Assembly (Fig. 3)
2	4a	Slide- Brush Holder Assembly (Fig. 4)
2	5a	Slide- Picture of Equipment
2	6a	Slide- Cylinder
2	7a	Slide- Cylinder
2	8a	Slide- Cylinder
2	9a	Slide- Cylinder
2	10a	Slide- Cylinder
3	1	Slide- Equipment
3	2	Slide- Equipment
3	3	Slide- Equipment
3	4	Slide- Equipment
3	5	Slide- Composition of Original and Final Sol. Chart
3	6	Slide- Equipment
3	7	Slide- Equipment
3	8	Slide- Effect of Sodium Hydroxide Concentration Chart
3	9	Slide- Effect of Sodium Potassium Tartrate Con. Chart
3	10	Slide- Effect of Sodium Cyanide Concentration Chart
3	11	Slide- Effect of Copper Concentrate Chart
3	12	Slide- Effect of Lead Acetate Concentration Chart
3	13	Slide- Effect of Dilution Chart

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3	14	Slide- Effect of Rate of Cathode Rotation Chart
3	15	Slide- Effect of Current Density
3	16	Slide- Effect of Temperature Chart
3	17	Slide- Reproducibility of the potential measure
3	18	Slide- Effect of Aging the Plating Solution Chart