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1985-1987
Descriptive Summary
Title: A. Theodore Forrester Papers
Collection number: 1978
Contributing Institution: UCLA Library Special Collections
Language of Material: English
Physical Description: 1.5 linear ft.
Date: 1985-1987
Language of Materials: English
Abstract: The collection contains notes, drafts, and publication information concerning Forrester's work on ionization, including materials related to his book Large Ion Beams.

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Restrictions on Access
COLLECTION STORED OFF-SITE AT SRLF: Open for research. Advance notice required for access. Contact the UCLA Library Special Collections Reference Desk for paging information.

Provenance/Source of Acquisition
Gift of Terry Crow, 16 July 1997.

Preferred Citation
[Identification of item], A. Theodore Forrester Papers (Collection 1978). Library Special Collections, Charles E. Young Research Library, UCLA.

UCLA Catalog Record ID
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Organization and Arrangement
Arranged in the following series:
1. Publications on ionization.
2. Publications on ionization by A. Theodore Forrester.
3. Articles on the analysis of ionization.
5. Surface ionization reprints
6. Draft of Large Ion Beams
8. Notes concerning ionization.
9. Book correspondence and publication information.
10. Unsorted notes.
11. Index to notebooks and unsorted references.
12. Correspondence with publishers.
14. Large Ion Beams.

Scope and Content
This collection focuses on Forrester's work on ionization and contains a large amount of pre-publication materials, including drafts and notes.

Processing Note
Processed by Benjamin Formaker-Olivas and Lilace Hatayama, August 2012.

Biography/History
Theodore Forrester (1918-1987) was a renowned physicist, engineer and inventor, famous for his research in ionization, quantum optics, and satellite acceleration. Forrester received his Ph.D. from Cornell University in 1942. He then worked on
A. Theodore Forrester was a physicist and teacher who worked in both the private sector and academic institutions. He was a member of the Physics Department and the Electrical Engineering Department at UCLA, where he worked on the physics of ionized gases (plasmas), specializing in plasma sheaths and plasma sources. His last work, *Large Ion Beams: Fundamentals of Generation and Propagation*, was finished weeks before his death in 1987 and published the same year. Forrester was a popular teacher of physics, electromagnetics, and plasma physics and an active member of the Academic Senate and the Academic Freedom and Faculty Welfare Committees. He was a political activist as well, speaking out against the Vietnam War, nuclear proliferation, U.S. intervention in Central America and the Strategic Defense Initiative.

**Indexing Terms**

The following terms have been used to index the description of this collection in the library's online public access catalog.

**Subjects**

A. Theodore Forrester.

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| Box 1, Folder 1 | Publications on ionization. |
| Box 1, Folder 2 | Publications on ionization by A. Theodore Forrester. |
| Box 1, Folder 3 | Articles on the analysis of ionization. |
| Box 1, Folder 4 | Resonance, Radiation, Excitation, Ionization by A. Theodore Forrester. |
| Box 1, Folder 5 | Surface ionization reprints (1 of 2). |
| Box 1, Folder 6 | Surface ionization reprints (2 of 2). |
| Box 1, Folder 7 | Draft of Large Ion Beams (folder 1 of 3). |
| Box 1, Folder 8 | Draft of Large Ion Beams (folder 2 of 3). |
| Box 1, Folder 9 | Draft of Large Ion Beams (folder 3 of 3). |
| Box 2, Folder 3 | Letter to A. Theodore Forrester from Harold R. Kaufman concerning Soviet Union thruster research. |
| Box 2, Folder 4 | Notes concerning ionization. |
| Box 2, Folder 5 | Book correspondence and publication information. |
| Box 2, Folder 6 | Unsorted notes. |
| Box 2, Folder 7 | Index to notebooks and unsorted references. |
| Box 2, Folder 8 | Correspondence with publishers. |
| Box 2, Folder 9 | Outline, introduction, and notes for *A Broad Uniform Unidirectional Ion Source* by A. Theodore Forrester and J. T. Crow, N. A. Massie and D. Scott Goebel. |
| Box 2, Folder 10 | Title page through chapter 2 drafts for Large Ion Beams. |
| Box 2, Folder 11 | Chapter 3 and 4 drafts for Large Ion Beams. |
| Box 3, Folder 1 | Chapter 5 and 6 drafts for Large Ion Beams. |
| Box 3, Folder 2 | Chapter 7 and 8 drafts for Large Ion Beams. |
| Box 3, Folder 3 | Chapter 9 and 10 drafts for Large Ion Beams. |
| Box 3, Folder 4 | References draft for Large Ion Beams. |
| Box 3, Folder 5 | Appendix draft for Large Ion Beams. |