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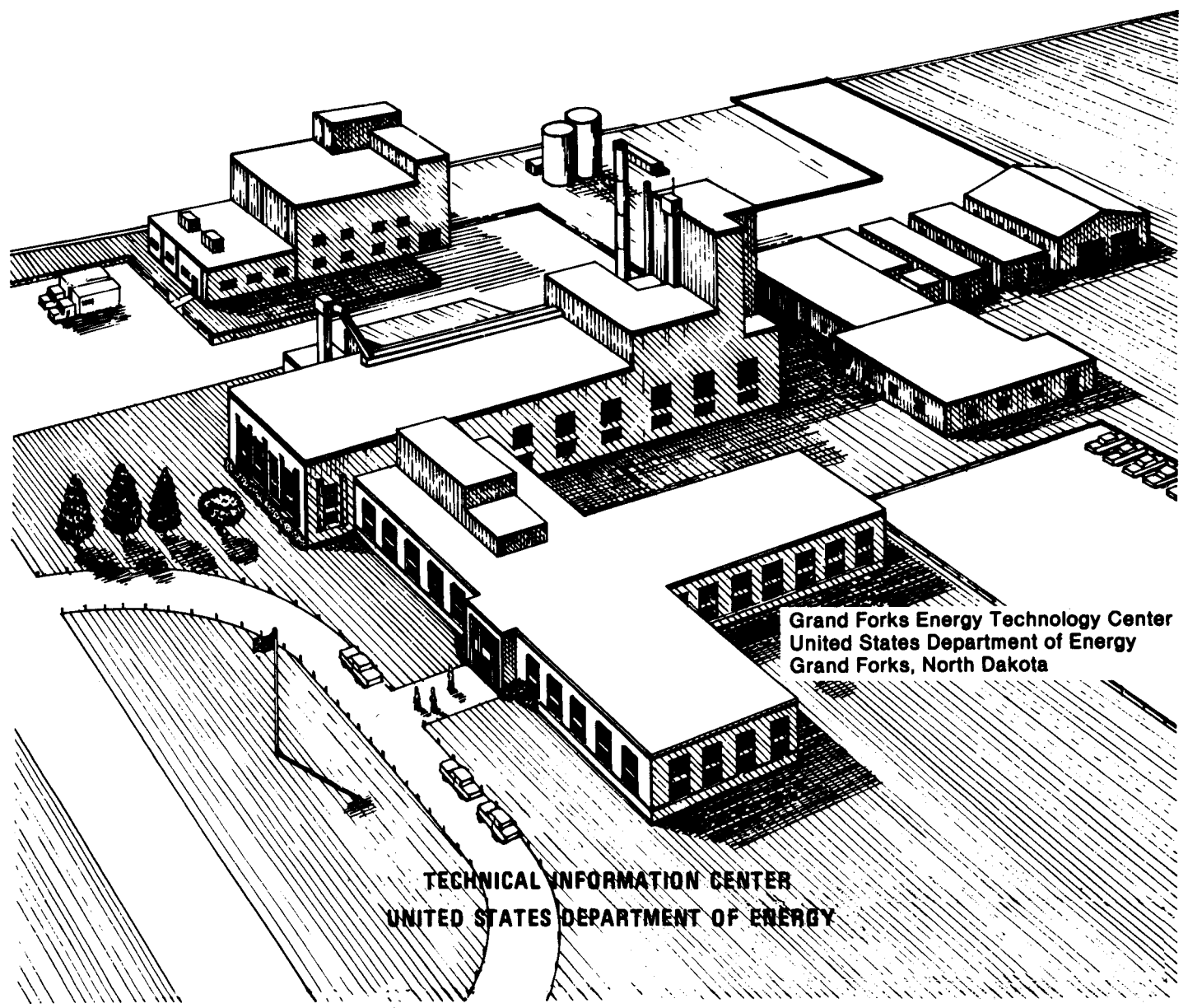
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LOW-RANK COAL PUBLICATIONS
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GRAND FORKS ENERGY TECHNOLOGY CENTER
UNITED STATES DEPARTMENT OF ENERGY
1939-1979

with subject and author indexes

compiled by
Charles C. Boley



Grand Forks Energy Technology Center
United States Department of Energy
Grand Forks, North Dakota

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Grand Forks, North Dakota 58202

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INTRODUCTION

The Grand Forks Energy Technology Center (GFETC) is one of five Energy Technology Centers in the U.S. Department of Energy (DOE). It has been designated as the lead Center in DOE on utilization technology for low-rank coal (lignite, subbituminous coal, and peat). GFETC has cooperated closely with industry in defining problems and performing research on low-rank coal for more than 40 years.

Early work was conducted in cooperation with the University of North Dakota, in Grand Forks. The present Center was dedicated in 1951 and was originally designated as the Charles R. Robertson Lignite Research Laboratory, part of the U.S. Bureau of Mines (Department of the Interior). Under several other designations, including Lignite Experiment Station, Grand Forks Lignite Laboratory, Grand Forks Coal Laboratory, and Grand Forks Energy Laboratory, the Center continued as a part of the Bureau of Mines until 1975, when it was administratively absorbed by the newly formed U.S. Energy Research and Development Administration (ERDA) and renamed the Grand Forks Energy Research Center. In 1977 ERDA was, in turn, absorbed by DOE, and the Center's designation was adjusted to the present Grand Forks Energy Technology Center.

This booklet lists all technical publications that have been prepared by the research staff of GFETC, under its present or an earlier designation, from 1939 through 1979. The booklet also includes all publications written by the staff of the former Denver Coal Research Laboratory (Bureau of Mines), the functions of which were absorbed in 1965 by the then Grand Forks Coal Research Laboratory. Included in the listing are patents that have been granted to staff members on the basis of their research at the Center, as well as theses for advanced degrees granted to graduate students by the University of North Dakota, Montana State University, and Montana College of Mineral Science and Technology on the basis of research sponsored by the Center.

In accordance with the Center's major area of past and continuing effort, this booklet includes primarily publications related to low-rank coals. These publications have been grouped into six major interest areas, where they are listed by author for convenience of the reader. In cases

^{1/}Staff Engineer, Grand Forks Energy Technology Center, Grand Forks, N.D.

where a single publication is of significant interest in more than one major area, it is listed in each. Subject and author indexes are also included. Finally, to complete the record of the Center's technical contributions, publications not related to low-rank coals are listed in an appendix; these publications are not indexed.

Publications listed in this booklet are available from various sources, depending on their type and publishing organization. The two major sources are the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402; and the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22151. When publications are obtained from these sources, there will be an appropriate charge.

Bureau of Mines publications, especially those identified as Reports of Investigations (RI), and Information Circulars (IC), may usually be obtained through the U.S. Bureau of Mines Publication Distribution Center, 4800 Forbes Avenue, Pittsburgh, PA 15213. When they are so available, there is no charge. Single copies of publications on work performed at Grand Forks or Denver, if an adequate supply is on hand, may be available from the Library, Grand Forks Energy Technology Center, DOE, Box 8213, University Station, Grand Forks, ND 58202, without charge. The librarian's telephone number at GFETC is 701/795-8132 (FTS: 783-0132).

Copies of patents are available from the U.S. Patent Office, Washington, DC 20231. For copies of theses prepared during work for advanced academic degrees, correspondence with the appropriate institution is suggested.

Publications that have appeared in scientific or technical journals, convention proceedings, and other non-governmental outlets are usually available for study in technical libraries. Copies can ordinarily be obtained through the assistance of the library staff or by correspondence with the author.

GFETC PUBLICATIONS ON LOW-RANK COAL

Physical and Chemical Properties of
Low-Rank Coal and Coal Products,
Including Petrography and Analytical Techniques

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Preparation, Pulverization, Storage,
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