

Brigham Young University
SABBATICAL LEAVE REPORT

Date September 2, 1976

Name H. Tracy Hall

College Physical and Math Sciences Department Chemistry

Rank Distinguished Professor

Time of Sabbatical Leave:

From September 1975 To August 1976

Original purpose for which leave was granted: Professional Development Leave

without financial compensation from BYU for personal research, writing, and consulting.

(If for any reason there was any diversion from this, please state fully the reasons why and the date of written approval of such change and by whom)

Summary of place or places resided, activities and accomplishments: (please use additional sheets if necessary)

1. Planned Solar Heated and Wind Powered House to be built near Payson on a 35 acre farm I own there. Project; i.e., actual construction is just starting. The project is personally financed. Prelude to the project was library research and a visit to NASA's windmill near Cleveland.
2. Commissioned by the United Nations to establish a high pressure laboratory at the National Physical Laboratory, New Delhi, India on an approximate \$100,000. budget. This was accomplished.
3. Writing: "High Pressure Techniques" a section of a book to be published by John Wiley and Edited by Bryant Rossiter. Project 90% accomplished.
4. Designed a High Pressure Machine for the High Temperature Institute, Moscow, USSR. Co-builders of the apparatus are Ingersoll Rand and Codevintec Corp. The apparatus is computer controlled and is the most elaborate high pressure machine in the world. Including the computer, this is a \$500,000. project. Project is 80% complete (construction included). BYU will receive royalties on this one.
5. Designed a new 300 ton high pressure press and started construction on same at my own expense. The press has new experimental features to test. Project 40% complete and is dormant because of lack of funds.

6. One month Genealogy Research trip covering Vermont, New York, West Virginia, Ohio, and Iowa. Very exciting! Wish I could spend six months at this.
7. Misc: Far-East tour with wife, attended various technical meetings, energy research.