

**PEAT**  
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January 1955 and was directed to the possibility of developing facilities from the basic acids in peat. Each week still is an on- and off-bills process, as called by Spillhaus, but the possibility of producing a binder material was suggested and developed as an immediate accomplishment.

Previous efforts to use the state resources have been directed at fuel possibilities. Peat described post being unable to compete with coal, natural gas or the atomic energy of the future.

For each ton of faceted peat processed it costs 12 to 15 cents for benzene and 4 to 24 cents for steam, Peat said.

Peat can be used at a much lower cost, he predicted, but said he could give no figure at this time.

Peat continued that preliminary studies have been done and much work remains including pilot plant studies to determine the actual commercial value of peat in faceted processing.

Laboratory work so far has produced faceted peat that can withstand pressure up to 25 pounds, depending on how fine the powder is ground, Peat said. Peat and his machine, he said, is used. Peat said. Actual strength required, he said, is from 18 to 22 pounds.

But only large-scale plants that work can answer many of the questions needed before commercial use can be made of the new product.

Both Spillhaus and Peat increase no credit to the peat billings or peat chemical development.

They point out that only 25 years ago the chemical products from petroleum were valued at a mere \$100 million. Today, more than 100 companies are producing some three billion dollars worth of chemicals from petroleum, each year equal to half the total income of the oil industry.

It has been estimated that Minnesota has seven billion tons of peat, mostly in the northern part of the state, now sitting approximately half the peat reserves in the United States.

In addition to chemical processing, other university groups involved in the peat research are the soils department of the institute of agriculture and the health branch chemistry department.

Minnesota's new faceted industry is an outgrowth of research conducted by Edward W. Davis, now of 5000 Boylston, and former director of the state experiment station.

It was Davis who suggested to his university colleagues the investigation of the possibilities of peat as a binder for peat.

Peat used in the laboratory work came from the bogs at Rice Lake near Duluth.

Working with Peat are Arthur J. Koster, Jr., research professor of chemical engineering, S. Taylor, scientist at the state experiment station and Fred Wadler, graduate student in chemical engineering.

## Will Peat Take Over continued

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