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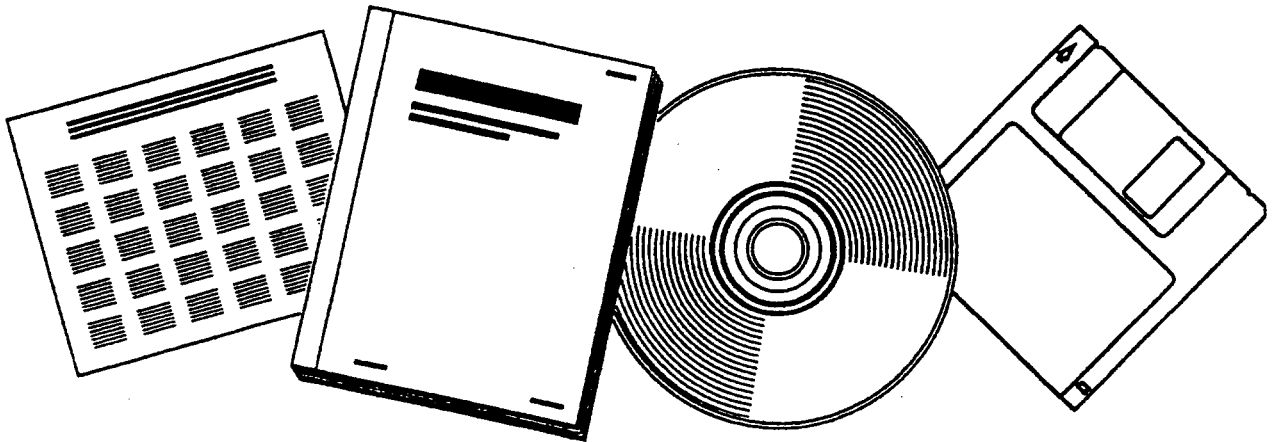
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**PROCEEDINGS OF THE DOE CONTRACTORS'
CONFERENCE ON INDIRECT LIQUEFACTION**

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DEPARTMENT OF ENERGY, PITTSBURGH, PA.
PITTSBURGH ENERGY TECHNOLOGY CENTER

1982



U.S. DEPARTMENT OF COMMERCE
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FOREWORD

An Indirect Liquefaction Contractors' Conference was held on September 8-9, 1982 at the Holiday Inn/Greentree, Pittsburgh, PA. The meeting was held for the purpose of reviewing the status of research and development work being sponsored by the DOE in support of Indirect Liquefaction Technology process development. A second purpose was the promotion of a technical exchange among the DOE contractors and PETC in-house research personnel and the gaining of insight into how individual projects dovetail to support the overall program.

Specific objectives intended were: to review updated project results, to enable contractors working in the subject area to discuss and exchange information, and to provide DOE's input into the review of the subject area.

These proceedings consist of the meeting agenda, the list of attendees, and copies of the nonconfidential versions of the presentations. Papers are not yet available for two of the presentations, but upon receipt from the speakers, they will be distributed to those receiving copies of the proceedings.

The U.S. Department of Energy thanks the participants for attending this meeting, and the speakers for preparing and giving the presentations.

Liquefaction Project Management Branch would also like to acknowledge our thanks to Mr. William Jones, HQ Program Manager, whose suggestions contributed to the success of the conference.

George Cinquegrane, Liquefaction Project Management Branch/PETC

AGENDA
DOE CONTRACTORS' CONFERENCE
INDIRECT LIQUEFACTION
HOLIDAY INN/GREENTREE
PITTSBURGH, PENNSYLVANIA
SEPTEMBER 8-9, 1982

Day 1 September 8 Wednesday

08:00-08:30	Registration	
08:30-08:35	Call to Order	
08:35-08:40	Welcome	A. Sharkey Deputy Director PETC/DOE
08:40-08:45	Introduction	J. Batchelor Fossil Energy/DOE
08:45-09:10	Zeolite-Supported Ruthenium for F-T Synthesis	J. Goodwin University of Pittsburgh
09:10-09:20	Questions and Answers	
09:20-09:40	Particle Synthesis and Properties of Zeolite Catalysts for Synthesis Gas - Gasoline Conversion	G. Dodwell, L. Sand Worcester Polytechnic Institute
09:40-09:50	Questions and Answers	
09:50-10:10	BREAK	
10:10-10:40	Liquid Hydrocarbon Fuels from Syngas	R. Eschenbach/J. Rabo Union Carbide
10:40-10:50	Questions and Answers	
10:50-11:10	Development of Catalytic Systems for the Conversion of Syngas to Jet Fuel and Diesel Fuel and Higher Alcohols	W. Slegeir Brookhaven National Laboratory
11:10-11:20	Questions and Answers	
11:20-11:35	F-T Catalysts	R. Diefenbach PETC/DOE
11:35-11:45	Questions and Answers	
11:45-01:00	GROUP LUNCHEON	

01:00-01:20	Investigation of Sulfur-Tolerant Catalysts for Selective Synthesis of Hydrocarbon Liquids from Coal-Derived Gases	J. Rankin Brigham Young University
01:20-01:30	Questions and Answers	
01:30-01:45	Metal Speciation in Fe/ZSM-5 and Co/ZSM-5 Relating to Synthesis Gas and Ethylene Conversion	J. Stencel PETC/DOE
01:45-01:55	Questions and Answers	
01:55-02:15	BREAK	
02:15-02:45	Liquid-Phase Methanol PDU-Project Status and Plan	J. Klosek/L. Mednick APCI/CSI
02:45-02:55	Questions and Answers	
02:55-03:15	FRG M-Gasoline Pilot Plant	W. Lee Mobil
03:15-03:25	Questions and Answers	
03:25	Adjourn	

Day 2 September 9 Thursday

08:15-08:20	Announcements	
08:20-08:45	Impact of Developing Technology on Indirect Liquefaction	D. Gray MITRE
08:45-08:55	Questions and Answers	
08:55-09:20	Two-Stage Slurry F-T/Mobil Syngas Conversion	J. C. W. Kuo Mobil
09:20-09:30	Questions and Answers	
09:30-09:55	F-T Synthesis in Slurry Reactor Systems	C. Satterfield MIT
09:55-10:05	Questions and Answers	
10:05-10:25	BREAK	
10:25-10:50	F-T Catalysts and Metal Cluster Catalysts	P. Dyer Air Products and Chemicals, Inc.
10:50-11:00	Questions and Answers	
11:00-11:20	Kinetic Study Using an Iron Fischer-Tropsch Catalyst	T. Y. Chen UOP
11:20-11:30	Questions and Answers	
11:30-11:45	Catalyst Parametric Studies	H. Pennline PETC/DOE
11:45-11:55	Questions and Answers	
11:55-12:10	Microstructure of F-T Catalysts (fused magnetite) as a Function of Reduction Conditions	R. Strehlow Oak Ridge National Laboratory
12:10-12:40	GROUP LUNCHEON and DISCUSSION	
12:40	Adjourn	

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