Welcome to the Indirect Liquefaction Contractors' Review Meeting November 6-8, 1990 Vista International Hotel Pittsburgh, Pennsylvania

The purpose of this meeting is to review the research in progress under this program and to promote the exchange of views and ideas.

Wednesday, November 7, 1990

8:30 a.m.

Call to Order

Gary J. Stiegel

Pittsburgh Energy Technology Center

8:35 - 8:50 a.m.

Welcome

Thomas M. Torkos

Deputy Director

Pittsburgh Energy Technology Center

8:50 - 9:20 a.m.

Keynote Address

George Rudins

Associate Deputy Assistant Secretary for Research & Development

Office of Fossil Energy

U.S. Department of Energy

Washington, DC

9:20 a.m. - 9:35 a.m.

Program Overview

Gary J. Stiegel

Pittsburgh Energy Technology Center

AGENDA

Wednesday, November 7, 1990 - Continued

GAS PROCESSING RESEARCH

Session Chairperson: G. J. Cinquegrane Pittsburgh Energy Technology Center

9:35 a.m.	Direct Conversion of Light Hydrocarbon Gases to Liquid Fuels: Process Variable Studies M. Foral Amoco Oil Company
10:15 a.m.	BREAK
10:40 a.m.	Status of PETC's Methane-to-Higher Hydrocarbon Process
	C. Taylor Pittsburgh Energy Technology Center
11:20 a.m	Light Hydrocarbon Gas Conversion J. Shelnutt Sandia National Laboratories
12:00 Noon	GROUP LUNCH
1:15 p.m.	GRI's Methane Reaction Program P. Barone Gas Research Institute
1:45 p.m.	METC's Program for Natural Gas-to-Liquids Conversion R. Malone Morgantown Energy Technology Center

OXYGENATED FUELS/FUEL ADDITIVES

Session Chairperson: G.J. Stiegel Pittsburgh Energy Technology Center

2:15 p.m.	Heterogeneous Catalytic Conversion of Syn-Gas to Fuel Alcohols G. Sheffer J. Hippler Union Carbide Corporation
2:55 p.m.	BREAK
3:10 p.m.	Oxygenates: Refiner's View S. Minner UNOCAL
3:50 p.m.	Synthesis of Dimethyl Ether and Alternative Fuels in the Liquid Phase from Coal-Derived Syngas B.L. Bhatt Air Products & Chemicals, Inc.
4:30 p.m.	Specifications for Future Transportation Fuels E. Wan Science Applications International Corp.

Thursday, November 8, 1990

ADVANCED

	FISCHER-TROPSCH SYNTHESIS Session Chairperson: V.U.S. Rao Pittsburgh Energy Technology Center	r
8:15 a.m.	Precipitated Iron Catalyst Performance in a Slurry Autoclave Reactor H.	Abrevaya UOP
8:55 a.m.	The Development of a Cobalt Catalyst for Use in Slurry Reactors H.	Abrevaya UOP
9:35 a.m.	BREAK	
9:50 a.m.	Development of Improved Iron Fischer-Tropsch Catalysts Texas A&M	D. Bukur University
10:30 a.m.	Slurry Phase Fischer-Tropsch Synthesis: Cobalt Plus a Water-Gas-Shift Catalyst C. Massachusetts Institute of T	Satterfield echnology
11:10 a.m.	An Exploratory Program for Using Hydrous N Oxide Ion Exchangers as Fischer-Tropsch Cat Sandia National La	alysts A. Lynch
11:50 p.m.	GROUP LUNCH	

ALTERNATE FUELS: PROCESS SUPPORT/ENGINEERING EVALUATION

Session Chairperson: R.D. Srivastava Burns & Roe Services Corporation

1:00 p.m.	Considerations in the Selection of a Fischer-Tropsch Reactor for Synfuels Production A. Geertsema SASOL
1:30 p.m.	Experience with Fluidized Bed Fischer-Tropsch Reactors at SASOL M. Dry SASOL
2:00 p.m.	Developing Environmentally Responsible Energy Resources A. Rowley FUELCO
2:30 p.m.	BREAK
2:45 p.m.	The Hybrid Plant Concept: Combining Direct and Indirect Coal Liquefaction Processes G. Tomlinson The MITRE Corporation
3:25 p.m.	Slurry Reactor Design Studies J. Fox Bechtel Group, Inc.
4:05 p.m.	Design of Slurry Reactor for Indirect Liquefaction Applications A. Prakash Viking Systems International
4:50 p.m.	Economics of Upgrading Fischer-Tropsch Products P. Shah UOP