

DOE/PC/90013-T2

DOE/PC/90013--T2

DE88 001565

SECOND QUARTERLY TECHNICAL PROGRESS REPORT

DOE CONTRACT NO. DE-AC22-86PC90013

Optimum Catalytic Process for Alcohol Fuels from Syngas

July 30, 1987

DISCLAIMER

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

Engineering, Manufacturing and Technology Services Division

Union Carbide Corporation
South Charleston Technical Center
South Charleston, West Virginia 25303

MASTER

DISTRIBUTION OF THIS DOCUMENT IS UNLIMITED

TECHNICAL PROGRESS REPORT

DE-AC22-86PC90013

April - June, 1987

Optimum Catalytic Process for Alcohol Fuels from Syngas

Engineering, Manufacturing and Technology Services Division

**Union Carbide Corporation
South Charleston Technical Center
South Charleston, West Virginia 25303**



**D. C. Best
Program Manager**

Patent Hold

This document copy, since it is transmitted in advance of patent clearance, is made available in confidence solely for use in performance of work under contracts with the U.S. Department of Energy. This document is not to be published nor its contents otherwise disseminated or used for purposes other than specified above before patent approval for such release or use has been secured, upon request, from the Chief Office of Patent Counsel, U.S. Department of Energy, 9800 South Cass Avenue, Argonne, Illinois 60439.

DOE-CH Form 383 (Rev. 6-78)

Patent Cleared by Chicago
OPC on August 10, 1987

DISCLAIMER

This Report was prepared as an account of work sponsored by the United States Government. Neither the United States nor the United States Department of Energy, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, mark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

PATENT STATUS

This Technical Report is being transmitted in advance of DOE patent clearance and no further dissemination or publication shall be made of the Report without prior approval of the DOE Patent Counsel.

Patent Cleared by Chicago
OPC on August 10, 1987

CONTENTS

I. Contract Objectives	1
II. Schedule	2
III. Organization	4
IV. Summary of Progress	5
V. Changes	9
VI. Future Work	10

Appendixes

A. Use of Code System	12
B. Procedures for Catalyst Testing	13
C. Procedures for Product Analysis	16
D. Technical and Experimental Data	18