## Department of Energy Office of Basic Energy Sciences 1983 Heterogeneous Catalysis Meeting at National Bureau of Standards, Gaithersburg, MD

## Program

.

Monday, Nove	mber 7
Chairman:	Gary L. Haller
8:30	Registration
8:40	Introductory Comments: F. Dee Stevenson
8:45	V. E. Henrich The Role of d-Electrons in Chemisorption and Metal-Support Interactions Studied by Electron Spectroscopy
9:15	M. A. Vannice A Study of Metal-Support Interactions in Ni, Pd, and Pt Catalysis
9:45	M. P. Rosynek Properties of Lanthanide Oxides as Supports for Transition Metal Catalysts
10:15	Coffee
10:45	C. H. Bartholomew Metal-Support Interactions: Their Effects Upon Adsorption, Electronic, and Activity/Selectivity Properties of Cobalt in CO Hydrogenation
11:15	J. H. Lunsford Catalysts and Mechanisms in Synthesis Reactions
11:45	A. Brenner Synthesis, Static, and Reactive Characterization of Supported Organometallics
12:15	R. D. Rieke Studies on Unusually Reactive Metal Powders. Preparation of New Organometallics Including Potentially New Catalysts
12:45	Lunch
2:00	J. L. Falconer Promoter Modifications of Catalytic Activity and Selectivity
2:30	J. W. Rathke A New Catalytic Pathway for Methanol Synthesis
3:00	Coffee
3:45	C. P. Casey Mechanistic Studies Related to the Metal Catalyzed Hydrogenation of Carbon Monoxide to Hydrocarbons
4:15	H. Wise Adsorption Thermodynamics and Surface Transport of Metal Catalyst Poisons

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Chairman:	•
8:45	G. L. Schrader
	Spectroscopic and Kinetic Characterization of Metal Oxide and
	Sulfide Catalysts
9:15	J. M. Stencel
	Vibrational Spectroscopic Studies of Coal Conversion
	Catalysts
9:45	R. J. De Angelis
2	Structural Characterization of Dispersed Metal Catalysts
10:15	Coffee
10:45	H. Heinemann
	Chemistry and Morphology of Coal Liquefaction: Reaction of
	Graphite and Water
11:15	N. Boudant
11:15	M. Boudart
	Catalytic Gasification of Carbon
11:45	R. J. Madix
	Molecular Beam Studies of the Dynamics and Kinetics of
-	Heterogeneous Reactions on Single Crystal Surfaces
12:15	R. V. Coleman
12.13	Spectroscopy of Surface Adsorbed Molecules
12:45	Lunch
2:00	H. H. Kung
2.00	Solid State, Surface and Catalytic Studies of Oxides
2:30	R. S. Hansen
	Catalytic Reactions Associated with Coal Liquefaction and
	Fuel Synthesis
3:00	D. W. Goodman
5.00	Reaction Kinetics Over Single Crystal Catalysts
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3:30	Coffee
3:45	D. M. Gruen
	Structures of Adsorbate Layers and Electronic Configuration
	of Metal Clusters
4:15	S. J. Riley
	Chemical Reactions of Transition Metal Clusters
Wednesday, N	overber 9
Chairman:	
8:45	Discussion Topic
	An Industrial View of Current Research on Catalysis
<b>9:45</b> to	12:45 Discussion Topic
	Which Types of Surface Science Research are Most