EXHIBIT
Hatton 1
SG 6/2/98

RESUME

ROGER E. HATTON
REH Consultants
406 Claybrook Lane
Kirkwood, Missouri 63122

EXPERIENCE

1968 to 1982	Monsanto - Technical Service Manager, Marketing Department
1960 to 1968	Monsanto - Project Manager in Organic Chemicals, Commercial Development Department
1952 to 1960	Monsanto - Research Group Leader
1946 to 1952	Monsanto - Research Chemist
1944 to 1946	Purdue Research Foundation - Research Fellow

EDUCATION

Purdue University, Ph.D , 1944,
Organic Chemistry

Purdue University, M.S., 1942,
Organic Chemistry

University of Omaha, A.B., 1940,
Chemistry

MEMBERSHIP IN TECHNICAL OR PROFESSIONAL ORGANIZATIONS

Society of Automotive Engineers
American Society for Testing and Materials
Fluid Power Society
American Chemical Society
American Society of Lubrication Engineers

PUBLICATIONS

Chapter 4, "Phosphate Esters" and
Chapter 8, "Silicate Esters" in "Synthetic Lubricants," edited by Gundersen and Hart, Reinhold Publishing Co., 1962

"Synthetic Oils," "Interdisciplinary Approach to Liquid Lubricant Technology," NASA SP-318, Pages 101-135, 1973.

PUBLICATIONS (continued)

"Fire Resistant High Temperature Hydraulic Fluids for the SST," SAE Conference Proceedings P-5, Aerospace Fluid Power Systems and Equipment Conference, 1965.

"Industrial and ASTM Fluid Fire-Test Programs," ASTM Special Technical Publication No. 406, P. 105-134, 1966 (also, Chairman for this Symposium on Test Methods for Fire Resistance of Hydraulic Fluids and Lubricants).

"Advanced Aircraft Hydraulic Fluids," Air Force Materials Lab., Hydraulic Fluids Conference, 1967.

"Hydraulic Fluids for High Altitude - High Temperature Vehicles, " SAE Preprint 660661, 1966.

"Filtration Index of Aircraft Hydraulic Fluids," Presentation to SAE Committee A6, Oct. 1974.

"Reactions of 4-methyl-1,3-pentadiene," G.B. Bachman and R.E. Hatton, J.Am. Chem. Soc. 66, 1513 (1944).

"Hexachlorobutadiene," E.T. McBee and R.E. Hatton, Ind. Eng. Chem., 41, 809 (1949).

"Chemical and Physical Properties of Alkyl Aryl Phosphates," H.R. Gamrath, R.E. Hatton and W.E. Weesner, Ind. Eng. Chem., 46, 108 (1954).

"Unsymmetrically Substituted Melamines," J.R. Campbell and R.E. Hatton, J. Org. Chem., 26, 2786 (1961).

"Preparation of Diaryl Sulfides and Sulfones," J.R. Campbell and R.E. Hatton, J. Org. Chem., 26, 2480 (1961).

BOOKS

"Introduction to Hydraulic Fluids," Reinhold Publishing Co., 1962.

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PATENTS:

Alkane Phosphoryl Monochlorides	U.S. 2,661,365	1953
Alkanediol Monoaryl Orthophosphates	U.S. 2,661,366	1953
Vinyl Halide Polymers Plasticized with Dialkyl Monoaryl Phosphates	U.S. 2,694,689	1954
Dialkyl Aryl Phosphates	U.S. 2,678,329	1954
Functional Fluids	U.S. 2,698,837	1955
Tritolyl Phosphate-Chlorinated Biphenyl Functional Fluid Improved By Alkylated Polystyrene	U.S. 2,707,176	1955
Dialkyl Aryl Phosphates	U.S. 2,739,978	1956
Dialkyl Phosphoryl Monochlorides	U.S. 2,739,977	1956
2-Hydroxy Esters of Aryloxyacetic Acids	U.S. 2,780,642	1957
Butyl Xylyl Sulfone	U.S. 3,007,787	1961
Phenyl (m-tolyl para-trifluoro-m-tolyl) phosphine	U.S. 3,020,315	1962
Phenylphosphonates and phosphonites	U.S. 3,071,609	1963
Alkyl Xylyl Sulfones	U.S. 3,102,148	1963
Preparation of Thioethers	U.S. 3,119,877	1964
Plasticized Poly (vinylidene halide) Resins	U.S. 3,190,849	1965
Stabilized Polyphenyl Ethers	U.S. 3,245,907	1966
Polyphenyl Thio Ethers	U.S. 3,311,665	1967
Polyphenyl Thio Ethers	U.S. 3,321,403	1967
Polyphenyl Ether Engine Lubricants	U.S. 3,423,469	1969
Polyphenyl Thio Ethers	U.S. 3,450,770	1969

Supplementary Information:

ASLE - Member of Editorial Review Committee
- Instructor-1969 Advanced Lubrication Seminar
- Member of Hydraulic, Power Generation and Aerospace Council
- Speaker at numerous local section meetings in various U.S. cities.
- Fellow

ASTM - Member of Technical Division N on Hydraulic Fluids of Committee D-2.
- Secretary of Technical Division N.
- Chairman of Section VIII on Stability (Tech. N).
- Chairman of Section VI on Fire Resistance (Tech N).
- Secretary of Study Group on Fire Resistant Fluids of Tech. G
- Member of Tech. N organizing group.

SAE - Member of Commercial Jet Transport Aircraft Hydraulic Fluids Panel - SAE Committee A-6, Aerospace Fluid Power and Control Technologies.
- Member of Coordinating Research Council Aviation, Fuel, Lubricant and Equipment Research Committee

U. S. Navy - Industry expert for ABCA Quadripartite Information Exchange Meetings on Fuels and Lubricants.

ISO/ANSI - Technical expert for ISO Technical Comm. 131 "Fluid Power Systems and Components" U.S.A. Technical Advisory Group, Subcommittee 6 "Fluids and Contamination Control".

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