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In Partial Fulfillment of the Requirements for

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By

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Dayton, Ohio

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Professor

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Name: Smith, John Jacob

University of Dayton

Advisor: Dr. William L. Portier

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 Now follows the abstract of the dissertation or thesis. It should be limited to 500 words or less. Mathematical formulas, diagrams, and other illustrative materials are not recommended for use in the abstract. The abstract should be carefully prepared since it will be published in the OhioLINK ETD Center and/or the Dissertation Abstracts International without editing or revision. The copy should be double-spaced. If the abstract text continues onto the second page, maintain the same page margins except use a 1 inch top margin.

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iv

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 My special thanks are in order to Dr. James Joyce, my advisor, for providing the time and equipment necessary for the work contained herein, and for directing this thesis and bringing it to its conclusion with patience and expertise.

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 I would also like to express my appreciation to everyone who has helping me with this work. This includes Mike Adams, who offered guidance with the burning rate measurements; Mary Burns, who gave advice concerning the photography of the sample; John Mellon, for providing the equipment and developing prints; and May Jones, for patiently preparing and correcting the text. I also deeply appreciate the help given by Dr. Brendan Swift, who aided in the material development and has taken time to review the text.

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TABLE OF CONTENTS

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Table of Contents Sample Page Example 1

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ABSTRACT…………………………………………………………………………………iii

DEDICATION……………………………………………………………………………….iv

ACKNOWLEDGMENTS……………………………………………………………………v

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4. Debriefing Sheet………………………………………………………………78

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INTRODUCTION……………………………………………………………………………1

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DISCUSSION……………………………………………………………………………….51

REFERENCES. ………………………………………………………………………….….57

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APPENDIX A Demographic Information Sheet……………………………………………58

APPENDIX B Coddington Life Events Scales for Preschool Children……………………60

APPENDIX C Informed Consent Form……………………………………………………76

APPENDIX D Debriefing Sheet……………………………………………………………78

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TABLE OF CONTENTS

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Table of Contents Sample Page - Example 3

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ABSTRACT…………………………………………………………………………………iii

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DEDICATION……………………………………………………………………………....iv

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LIST OF SYMBOLS/ABBREVIATIONS…………………………………………………..ix
CHAPTER I FIRST CHAPTER HEADING……………………………………………...1

* 1. First Primary Subheading………..…………………………………………………..5

1.1.1 First secondary subheading………………………………………….…………5

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 1.2 Second Primary Subheading ..…………………………………………..…………...7

 1.2.1 First secondary subheading …………………………………………………...8

CHAPTER II SECOND CHAPTER HEADING……………………………………….…19

 2.1 First Primary Subheading ..………………………………………..……………….21

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 2.1.1 First secondary subheading ………………………………………………….21

 2.2 Second Primary Subheading .……..……………………………………………….23

CHAPTER III THIRD CHAPTER HEADING……………………………………………36

CHAPTER IV SUMMARY AND CONCLUSIONS………………….…………………..82

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APPENDICES

1. Exact Title of Appendix…………………………………………………………..109

B. Exact Title of Appendix…………………………………………………………..110

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Double-space your list. Figure captions can be single-spaced if more than one line with a double space between each caption.

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LIST OF ABBREVIATIONS AND NOTATIONS

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 AA Atomic Absorption

 AFM Atomic Force Microscopy

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 AI2O3  Aluminum Oxide

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 ANOVA Analyses of Variance

 Fe Iron

 Ni Nickel

 *a,b,c* Experimentally Derived Constants

 *I* Impurity Content

 *I*lim Limiting Value for Impurity Content

 *ZP*  Zeta Potential

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CHAPTER I

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Heading and chapter title should be ALL CAPITAL LETTERS, centered and not bolded

Chapter 1 Sample Page- Example 1

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INTRODUCTION

Text should begin four single-spaced lines below the heading

*Research Areas*

 Two areas of study were addressed in the manuscript; the first being the properties of TriEGME compared to DiEDME in regards to the fuel icing inhibitor additive replacement; the other being a study of metal speciation chemistry of copper using N,N’- disalicylidene- 1,2-propanediamine (MDA).

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 *Level Two (secondary) Subheading* (Indented, italicized, uppercase and lowercase

 headings)

 Two areas of study were addressed ………

 *Level three (tertiary) subheading* (Indented twice, italicized, lowercase heading). Two areas of study were addressed ………

*Fuel System Icing Inhibitory Additives*

 Petroleum is composed of s diverse mixture of hydrocarbons such as paraffins, olefins, cyclo-parafins (naphthenes), aromatics and a host of trace species. Petroleum distillates such as jet fuels are also a complex mixture of hydrocarbons. The crude source of these mixtures, and refinery processes used, play a major role in their physical/chemical identity and properties such as energy content, combustion characteristics, density, fluidity, lubricity, stability, corrosivity and electrical conductivity. The ability to characterize these components along with the many additives used to complement them is of major concern for the United States military (Striebirch et al., 2000).

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Use Arabic numbers beginning with 1

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CHAPTER I

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Text should begin four single-spaced lines below the heading

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Chapter 1 Sample Page- Example 2

INTRODUCTION

**Research Areas (Primary, Left Aligned, Boldfaced, Uppercase and Lowercase Headings)**

 Two areas of study were addressed in the manuscript; the first being the properties of TriEGME compared to DiEDME in regards to the fuel icing inhibitor additive replacement; the other being a study of metal speciation chemistry of copper using N,N’- disalicylidene- 1,2-propanediamine (MDA).

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 **Level Two (secondary) Subheading (Indented, Boldface, Uppercase and Lowercase**

 **Headings)**

 Two areas of study were addressed ………

 ***Level three (tertiary) subheading*** (Indented twice, boldface, italicized, lowercase heading). Two areas of study were addressed ………

Chapter 1 Sample Page - Example 1

**Fuel System Icing Inhibitory Additives**

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 Petroleum is composed of s diverse mixture of hydrocarbons such as paraffins, olefins, cyclo-parafins (naphthenes), aromatics and a host of trace species. Petroleum distillates such as jet fuels are also a complex mixture of hydrocarbons. The crude source of these mixtures, and refinery processes used, play a major role in their physical/chemical identity and properties such as energy content, combustion characteristics, density, fluidity, lubricity, stability, corrosivity and electrical conductivity. The ability to characterize these components along with the many additives used to complement them is of major concern for the United States military (Striebirch et al., 2000).

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CHAPTER I

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Heading and chapter title should be ALL CAPITAL LETTERS and centered

Chapter 1 Sample Page- Example 3

INTRODUCTION

Primary subheading

**1.1 Research Areas**

 Two areas of study were addressed in the manuscript; the first being the properties of TriEGME compared to DiEDME in regards to the fuel icing inhibitor additive replacement; the other being a study of metal speciation chemistry of copper using N,N’- disalicylidene- 1,2-propanediamine (MDA).

Secondary subheading

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**1.1.1 Fuel System Icing Inhibitory Additives**

 Petroleum is composed of s diverse mixture of hydrocarbons such as paraffins, olefins, …

Tertiary subheading

**1.1.1.1** **Fuel System Additives**

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 Petroleum is composed of s diverse mixture of hydrocarbons such as paraffins, olefins, cyclo-parafins (naphthenes), aromatics and a host of trace species. Petroleum distillates such as jet fuels are also a complex mixture of hydrocarbons. The crude source of these mixtures, and refinery processes used, play a major role in their physical/chemical identity and properties such as energy content, combustion characteristics, density, fluidity, lubricity, stability, corrosivity and electrical conductivity. The ability to characterize these components along with the many additives used to complement them is of major concern for the United States military (Striebirch et al., 2000).

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Use Arabic numerals beginning with 1

 1

 Jet fuel, used by the United States military, plays a vital role in safety and security of the nation’s people and interests. It is no surprise that extensive investments in time and money havebeen applied to discover new technologies and applications of the better use of these fuels. Jet fuel additives offer a wide range of properties that fuels and mechanical components themselves could not feasibly offer, such as but not limited to icing inhibition, corrosion protection, static dissipation, and thermal stability.

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 Fuel system icing inhibitors (FSII) are incorporated into military jet fuels to prevent ice crystal formation in the fuel and/or fuel systems which could plug filters and fuel lines during high altitude flights in which the outside air temperatures can be below -70 degrees C. As a result of the unfortunate crash of B52-Stratofortress in 1959 which was attributed to ice blockage of fuel lines, icing inhibitor additives become required in fuels for military operation in 196

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Arabic numerals continue



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**Figure 1:** Number of licensed drivers (in millions) in the U.S. between 1997 – 2006.

Data from: National Center for Statistics and Analysis. (2006). Fatality Analysis Reporting System.

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**Table 2.1:** Initial and final mesh sizes (half-span model) for grid convergence study at upper bounds of design space.

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| 8 | 6 | 7704 | 534*,*569 |
| 16 | 6 | 14*,*017 | 962*,*085 |
| 32 | 6 | 45*,*137 | 3*,*114*,*228 |

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REFERENCES

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Abdul-Adil, J.K. & Farmer, A.D. (2006). Inner-city African-American parental involvement in elementary schools: Getting beyond urban legends of apathy. *School Psychology Quarterly,* 21, 1-12.

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Allan, G. (2003). A critique of using grounded theory as a research method. *Electronic Journal of Business Research Methods, 2*(1), 1-10.

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*12,* 67-77.

McCrea, M., Hammeke, T., Olsen, G., Leo, P., & Guskiewicz, K. (2004). Unreported

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*Journal of Sports Medicine, 14*(1), 13-17. doi: 10.1097/00042752-200401000-

00003

Zimmerman, Joyce Ann. *Red + Gold: A Spirituality of the Sisters of the Precious Blood for* ***Everyone***. Maria Stein OH: Maria Stein Shrine of the Holy Relics, 2012.

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3

REFERENCES

References Sample Page- Example 2

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1. E George W. Stimson. Airborne Radar. (2nd Edition) Raleigh, NC: SciTech Publishing Inc., 1998, pg. 6,7,91,100.

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1. “GPS Basics” Internet: [learn.sparkfun.com/tutorials/gps-basics](file:///C%3A%5CUsers%5CDan%5CGoogle%20Drive%5CDocuments%5CWork%5CContracting%5CMumma%20Lab%20LION%20Group%20Project%5CAcademic%5CThesis%20Paper%5Clearn.sparkfun.com%5Ctutorials%5Cgps-basics), [3/26/2017]

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1. Dr. Michael Wicks and Dr. Lorenzo LoMonte. “Introduction to Radar.” University of Dayton, Fall 2015.

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