

ABSTRACT

THE OBJECTIVE OF THIS RESEARCH IS TO ASSESS AND COMPARE THE ABOVEGROUND CARBON STORAGE OF PLANT SPECIES IN THE RESEARCH AREA, UTILIZING THE NON-STANDARD SITE CARBON CYCLE PROTOCOL FOR **MEASURING CARBON DYNAMICS.**

THE MEASUREMENTS INCLUDE 1) THE CIRCUMFERENCE AT BREAST HEIGHT (CBH) FOR TREE TRUNKS 2) THE HEIGHT OF SHRUBS/SAPLINGS AS INDEPENDENT VARIABLES IN ALLOMETRIC EQUATIONS, CALCULATING BIOMASS TO DETERMINE **ABOVEGROUND CARBON STORAGE** 3) WEIGHING HERBACEOUS COMPONENTS.

THE RESULTS ARE THEN COMPARED WITH THE CARBON FOOTPRINT DATA USING THE INTERNATIONAL STANDARD ISO 14064-1:2006 GREENHOUSE GASES – PART 1: SPECIFICATION WITH GUIDANCE AT THE ORGANIZATION LEVEL FOR QUANTIFICATION AND REPORTING OF GREENHOUSE GAS EMISSIONS AND REMOVALS.

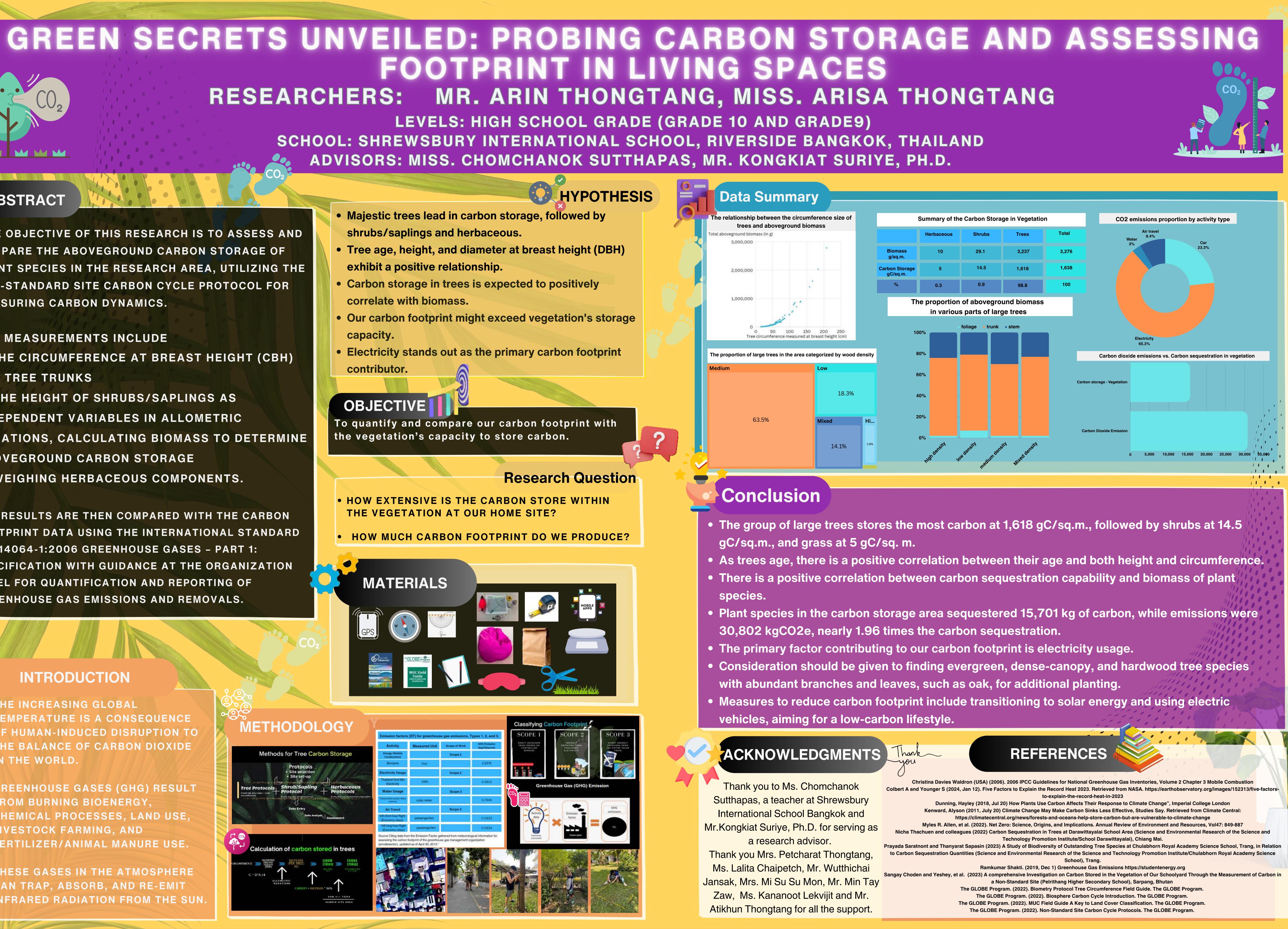
INTRODUCTION

THE INCREASING GLOBAL IPERATURE IS A CONSEQUENCE **OF HUMAN-INDUCED DISRUPTION TO** THE BALANCE OF CARBON DIOXIDE IN THE WORLD.

GREENHOUSE GASES (GHG) RESULT FROM BURNING BIOENERGY, CHEMICAL PROCESSES, LAND USE, LIVESTOCK FARMING, AND FERTILIZER/ANIMAL MANURE USE.

THESE GASES IN THE ATMOSPHERE CAN TRAP, ABSORB, AND RE-EMIT **INFRARED RADIATION FROM THE SUN.** METHODOLOGY

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