**Application to Conduct Advanced Training for South Texas Master Naturalist**

**This form is for programs other than community and partner AT, Monthly Meeting AT and Intern Training. All presentations should comply with TMN mission**

**Presenter Name: AT Subcommittee Approval:\_\_\_\_\_\_\_\_\_\_\_\_\_**

* **Chad Huckabee, South Texas Chapter Master Naturalist**

**Presentation Title:**

* **Plant Microecosystems: A Primer Correlating Macro- and Microecosystems of Plants**

**Type of Training:** Is this field (or laboratory), classroom or combination training (Circle one)

**Hours for Advanced Training Presentation:** 2, 3, 4, 5, 6 (Circle one)

**Objectives for the Presentation:**

* **Differentiate micro- and macro-ecosystems**
* **Describe and identify mycorrhizal fungi**
* **Briefly explain the main functions of mycorrhizal fungi with plants**
* **Describe the sugar, water mineral exchange between mycorrhizal fungi and plant roots**
* **Discuss how mycorrhizal plants are ecologically better adapted to control disease, drought, and salinity resistance.**
* **Explain how mycorrhizal plants are better adapted to control insect infestation**

**What should Master Naturalist leave the presentation knowing or understanding?**

* **Understand the importance of mycorrhizal fungi that most plants need to assimilate water and nutrients**
* **Sketch and model the physical interdependence of the fungi and the root hairs of plants**
* **To briefly describe how mycorrhizal fungi protect the plant from seed germination to seed disbursal**

**Facility/Equipment:**

* **Comfortable outdoor setting accessible to trees**

**Supplies provided by participants (notebooks, lunch, outdoor apparel:**

* **Note taking supplies, hand lens, pocket knife**

**Supply Cost/Gratuity (if any):**

* **None**

**Time of Year to Conduct Presentation:** Please include season, morning, afternoon or all day,

* Mourning

**Possible Dates:**

* **Post COVID**

**Minimum and Maximum Number of Participants:**

* **20**

TMN Mission: “to develop a corps of well-informed volunteers who provide education, outreach, and service dedicated to the beneficial management of natural resources and natural areas within their communities for the state of Texas”