

## 1 Motivation

Needing a portable antenna, I decided to try the Buddistick system from Buddipole (<https://www.buddipole.com/>). It works well, but since I operate portably rather than at the end of a long portage, I wanted to use a photographic tripod in conjunction with a Versatee to give me a little more flexibility in configuration.

## 2 Problem

The Versatee is designed to attach to the end of a mast threaded with  $\frac{1}{2}$ " NPT<sup>1</sup>, as shown in Figure 1.

Photographic tripods use a  $\frac{1}{4}$ "-20 UNC<sup>2</sup> threaded stud to attach accessories.

Therefore, I would need an adapter to make this work.

## 3 Solution

At a hardware department-store, I found a  $\frac{1}{2}$ " to  $\frac{1}{4}$ " NPT pipe reduction bushing and a  $\frac{1}{4}$ "-20 UNC coupling nut, as shown in Figure 2.

Figure 1: Mast-mount end of Versatee with  $\frac{1}{2}$ " NPT



Figure 2: Bushing and Coupler



Figure 3: Bushing and coupler press-fit



Figure 4: Coupler pressed home in bushing



Figure 5: Adapter installed in Versatee



Figure 3, Figure 4, and Figure 5 shows the sequence to the completed adapter enabling use of the Versatee with a photographic tripod.

<sup>1</sup> National Pipe Thread  
<sup>2</sup> Unified National Course