

studies the structure,
composition, and processes
that interact in a forest to
provide different habitats for
plants and animals. My research
focuses on improving our
understanding of changes
in forest conditions.

## Dr. Sean Healey Forest Ecologist Ph.D., University of Washington

Ph.D., University of Washington USDA Forest Service scientist



# Meet the Scientist!





http://www.naturalinquirer.org

#### Important Scientist Characteristics

A scientist has to have an open mind. Some of what we think we know is simply wrong. A single insight can change everything. That insight might come from anyone or anywhere as long as we are open to it.

#### Example of a simple research question I have tried

**to answer:** How does forest disturbance, like fire, insects, and disease, affect a forest's ability to remove carbon from the air? I developed a system that helps national forest managers understand these processes.

#### Technology or equipment used in research:

I am on the Science Team for the new Global Ecosystem Dynamics Investigation (GEDI) mission. This mission is organized by the National Aeronautics and Space Administration (NASA). GEDI will put an instrument on the International Space Station. Once in space, GEDI will tell us both how tall forests are around the planet and how much carbon forests store.

#### Most Exciting Discovery

Many scientists use imagery from space to map how and where forests are changing. I co-lead a team that discovered a way to combine whole groups of maps so that we can see forest losses faster and more accurately than ever before.

### When did you know you wanted to be a scientist?

I worked for the Peace Corps for two years in a small village in the African country of Cameroon. Every day, I saw trucks carrying huge logs away from the forest. I eventually began to wonder what humans were doing to forests.