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## Dr. Andrzej Bytnerowicz





## Important Scientist Characteristics:

A no-nonsense approach supported by strong chemical and biological education, hard work, and a "big picture" method to seeing and solving scientifically important and interesting problems are valuable for my career. The ability to lead large research teams and optimism have also contributed to my accomplishments.

**Example of a simple research question I have tried to answer:** Ground-level concentrations of ozone, an air pollutant that can cause problems for humans and environmental systems, have been recently decreasing in the United States. How much are present levels of this important air pollutant still affecting human and forest health in California?

**Technology or equipment used in research:** I use passive samplers in large-scale (e.g., landscape, region) evaluations of air pollution. These relatively simple sampling devices enable scientists to determine the concentration of ozone, ammonia, nitrogen oxides, nitric acid, sulfur oxides, and other chemicals potentially toxic to people and plants.

Most Exciting Piscovery
I helped develop research
collaboration between U.S.
and European scientists and
managers. This research for
the first time showed elevated
levels of ozone in the Carpathian
Mountain forests of Central
Europe. The elevated levels of
ozone are contributing to forest
decline in the Carpathians and
worldwide.

When did you know you wanted to be a scientist? I knew I wanted to be a scientist after completing my Master of Science degree at the Warsaw Agricultural University in Poland. During my Ph.D. work, I developed a methodology for evaluating environmental pollution by sulfur, fluorides, and heavy metals at a large country scale (Poland) based on chemical analysis of Scots pine needles.

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