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## Henry Van Tuyl Cotter - Education and Employment Resume

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### Education

**Ph.D., Botany (Mycology)**, Virginia Tech, Blacksburg, VA, 1987.

Dissertation: The systematics and ecology of boletes with special reference to the genus *Suillus* and its ectomycorrhizal relationships in Nepal.

**M.S., Botany & Plant Pathology**, Univ. of New Hampshire (UNH), Durham, NH, 1977.

Thesis: Beech bark disease: Fungi and other associated organisms.

**B.S., General Studies in Life Sciences & Agriculture**, Univ. of New Hampshire, Durham, NH, 1974.

### Employment and professional experience

**Agricultural Consulting - AgChem Research, Mycology, Plant Pathology** 2012-present.

**Visiting Scholar. Mycology Lab. Duke Univ.** 2014-present.

**Herbarium Associate. Univ of NC Herbarium (NCU).** 2013-present.

**Collaborator. NC State Univ.** Mycology classes. Plant pathology, animal pathology research. 2013-present.

**Fungal Contributor. NC State Parks BioBlitzes.** 2015-present.

**Integrated Pest Management (IPM).** Farmer-to-Farmer Program. Senegal. Mar 2012. Jun 2013. Tajikistan June 2019.

**Shiitake, Oyster Mushroom Spawn Production Training.** Farmer-to-Farmer Program. Nepal. Aug 2014, Aug 2019.

**Oyster Mushroom & Spawn Production Training.** Farmer-to-Farmer Program. Guatemala: Feb 2015, Sept 2016. Ghana: May 2016.

Malawi: Dec 2017.

**Mycorrhizae in Cedar Reforestation.** Farmer-to-Farmer Program. Lebanon: Nov 2016.

**Green Bean Crop Protection.** Farmer-to-Farmer Program. Egypt. Nov 2015.

**Group Leader for Fungicide & Nematicide Biology**, FMC Global Innovation Organization, Princeton then Ewing, NJ, USA 2006-2012.

Retired 1 Jan 2013. Responsible for co-coordinating internal and outsourced lab, greenhouse, field characterization of experimental fungicide and nematicide formulations and materials, both synthetic and biological. Supervision of 1-3 assistants plus temporary help. Active participant on global development teams. Regularly provided support to Global Strategic Marketing.

**Member Ewing NJ Township Environmental Commission** 2010-2011.

**Teacher Fellow** in NSF Program to support science education in NC public schools. 2002-2010.

**Project Leader for Seed, Soil, Systemicity Insecticide/Nematicide Advanced Research**, BASF, RTP, NC USA 2003-2006

Responsible for lab, greenhouse, microplot field characterization of insecticide-lead chemistries for spectrum, systemicity, & seed treatment potential, formulation evaluation, test method development. Supervision of 2-4 assistants. Active participant on global seed treatment, lead optimization, biotechnology, and software development teams. Project Co-Leader for a PreProject candidate chemistry.

**Project Leader for Nematicide Advanced Research**, BASF, Princeton, NJ 2002 => RTP, NC 2002-2003.

Responsible for lab, greenhouse, miniplot field characterization of nematicide-lead chemistries, formulation evaluation, nematicide test method development, nematode culture collection methodology, nematode inoculum production, in co-ordination with synthetic chemistry and field biology recommendation of compounds for field testing. Supervision of 2-3 assistants.

Active participant on integration, process definition, relocation, and software development teams.

**Project Manager** (2001-2003) for Selection Phase Nematicide Project.

**Project Leader for Fungicide Advanced Research**, American Cyanamid, Princeton, NJ, 2000-2001.

Responsible for characterization of fungicide lead chemistries including design and implementation of directed synthesis screens to support active synthesis projects, conduction of meetings to discuss and act on the data and recommend compounds for field testing. Supervision of 3 assistants.

**Project Leader for Fungicide Lead ID, Crop Protection Lead ID**, American Cyanamid, Princeton, NJ, 1998-1999.

Responsible for the operation of the Fungicide Screens including design and development of new screening technologies with the overall objective of identifying compounds which show fungicidal activity against commercially relevant plant diseases and their causal agents. Supervision of 4-6 assistants.

**Laboratory Leader, Disease Control**, Cyanamid Forschung, Schwabenheim, Germany, 1994-1998.

Responsible for advanced greenhouse and outdoor pot tests to characterize the fungicidal properties of experimental compounds, formulation and adjuvant evaluation, coordination of overseas greenhouse advanced testing and ecotox screening, development of new test methods, and of special biological screens to help direct chemical synthesis, culture curation, and fungal identification. Supervision of 3 assistants.

**Project Manager** (1996-1997) for Phase II Fungicide Project that advanced and received EU registration in the UK Sep 03 (Metrafenone).

Cyanamid's **Scientific Achievement Award** (1998) Joint award with Dr. J. Curtze for discovery of a new fungicidal chemistry.

**Adjunct Assistant Professor**, Rider College, Lawrenceville, NJ, 1989-1993.

**Project Leader for the Mycology Lab, Fungicide Discovery**, American Cyanamid, Princeton, NJ, 1987-1994.

Responsible for curation of culture collection, production of inoculum for screen and advanced tests, conduction of specialized tests, mycological support for other groups at Cyanamid. Supervision of 1 permanent plus temporary assistants.

**Instructor**, Biology Dept., VPI & SU, Blacksburg, VA, summer 1987.

**Academic Advisor**, College of Arts & Sciences Advising Center, VPI & SU, Blacksburg, VA, 1983-85.

**Computer work** for Mycorrhizae Project, Biology Dept., VPI & SU, Blacksburg, VA, 1982, 1984.

**Consultant; Computer**, 1981; **Botanical editor**, 1982, 1983; International Board for Plant Genetic Resources;

Food & Agriculture Organization of the United Nations; Rome, Italy.

**Computer Usage Consultant**; College of Liberal Arts, 1980; College of Life Sciences & Agriculture, 1980-81; UNH; Durham, NH.

**Computer Consultant** for Rare and Endangered Vascular Plant Project, Dept. of Botany & Plant Pathology, UNH, Durham, NH, 1979-80.

**Assistant on the fishing vessel** Crazy Horse, Kittery, ME, 1979-80.

**Research Plant Pathologist**, Computer applications in plant pathology, Dept. of Botany & Plant Pathology, UNH, Durham, NH, 1977-78.

**Forestry Aid**, Tree Discoloration and Decay Project, U.S. Forest Service, Durham, NH, 1976-77.

**Statistics Tutor**, UNH, Durham, NH, 1976-77.

**Diagnostician**, Plant Disease Diagnostic Clinic, UNH, Durham, NH, 1974-76.

**Production worker/associate**, The New Hampshire (student newspaper), UNH, Durham, NH, 1973-74.

**Assistant Manager of Victor Friday Fruit Farm**, Traverse City, MI, Summers 1973-74.

**Patent and publication list, and other additional information, gladly furnished upon request.**