

# Natalie Carroll, Ph.D.

## Bio-sketch

Natalie Carroll directs and supports informal youth studies, primarily through 4-H, in natural resources and the environment. 4-H projects and activities responsibilities include:

- aquatic science
- beekeeping, entomology
- forestry, geology
- soil & water conservation
- shooting sports
- sport fishing
- weather
- wildlife

Carroll coordinates the Indiana Entomology, Forestry, and Wildlife Habitat Education Program (WHEP) 4-H/FFA career development events. Carroll's major responsibility is curriculum development for youth natural resource and environmental programs. She has authored or co-authored a variety of 4-H and classroom enrichment materials and maintains (reviews, revises, rewrites) 75 paper publications (averaging 32 pages each) and 10 web publications to support Indiana 4-H natural resources projects. Paper publication sales average 13,000 each year. Carroll has extensively revised or rewritten nine of the 10 4-H project curricula in her program area. Carroll has produced 20 peer-reviewed manuals being used by youth nationwide through the National 4-H Curriculum Collection. Sales of these manuals now exceed 200,000 copies. The publications are:

- Biological Control of Purple Loosestrife (two manuals, 135 total pages)
- Entomology (four manuals, 168 total pages; revised in 2011)
- Forestry (four manuals, 144 total pages)
- Shooting Sports (one manual, 28 pages, plus and on-line leader's guide)
- Wildlife (five manuals, 131 total pages)

Her two most recent books are:

- Carroll, N., Frankenberger, J., Jones, D., Persyn, R., Powell, M., Scherer, T., *Private Water Systems*, Midwest Plan Service (MWPS-14), April, 2009, ISBN 0-89373-105-6.
- Carroll, N and Jones, D, 2006. *Living on Acreages, What You Need to Know*. Midwest Plan Service (MWPS-50), ISBN 0-89373-103-X.Dr.

Carroll has presented her work at national and international conferences and provided training at 323 conferences, seminars, or workshops for 6,386 adults, and 7,483 youth (2010 data). She has 48 Purdue Extension publications, 9 refereed journal articles and 19 non-refereed journal articles. She has served on 23 graduate student committees (chair or member).

Natalie is currently working on education and outreach on a NIFA funded project: *Agro-ecosystem Approach to Sustainable Biofuels Production via the Pyrolysis-Biochar Platform (AFRI-CAP)*, National 4-H Council funded Toyota 4-H<sub>2</sub>O Community Project, and an NSF funded *COSIA: Communicating Ocean Sciences to Informal Audiences*. She has collaborated on projects with funding over \$15,464,000.

Natalie taught middle and high school math and adult education in the 1970's before receiving her M.S. (1983) and Ph.D.(1993) degrees in Agricultural Engineering.

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