

“You Can Scale This Up”: Promoting Growth by Engaging With Place

Bob Coulter – Missouri Botanical Garden (bob@lrec.net)

[PEEC: \(Place-based Education Evaluation Collaborative\):](#)

Research on the benefits of place-based education (6 page pdf)

[Hart’s Ladder of Participation:](#)

8 steps reflecting increasingly sophisticated youth involvement.

[On the Run Guide to Student Inquiry:](#)

A fine-grained look at student inquiry. The presentation covered the highlights; see the full document for a more granular look. Developed by the Vermont Elementary Science Project (no longer in operation).

[Scot Osterweil’s Four \(or 5\) Freedoms:](#)

Originally developed as 4 freedoms, subsequently expanded to 5. [5 minute YouTube video]

[David Hawkins:](#)

“I-Thou-It” and “Messing About in Science” essays in *The Informed Vision*. Also, see the work his wife Frances did as a pre-school teacher.

[Witnessing Professional:](#)

A concept adapted from Robert Jay Lifton, challenging us to “use our knowledge and technical skills to expose and bear witness” to the state of childhood today. [The book linked here has only brief references to the concept.]

[Concepts from the RSA \(Royal Society of the Arts\):](#)

“Think like a system; act like an entrepreneur,” and work toward a learning society by promoting:

- Inquisitive, life-long *learners*
- Reflective *educators* fascinated by the science and art of teaching
- Mission-oriented educational *institutions*
- *Communities* that value education