

Number of Development Hours: 1

Name of Development Provider: Flinn Scientific, Inc

Educator's Information: Joe Schoolteacher
Community High School
770 N. Raddant Rd.
Batavia, IL 60510

Title of Development Activity: **Content Area:** Acids and Bases

Product Title: Buffers

Description of Development Activity: In-depth online instruction of how to use the following activities to teach specific Chemistry topics. Detailed handouts and assessment included.

Content Description: Vinegar, aspirin, Vitamin C, baking soda and ammonia—many common substances are acids and bases. Investigate the properties, principles and applications of acid-base chemistry.

Product Description: Buffers provide an essential acid-base balance in consumer products, foods, lakes, streams and even living cells. What are buffers made of and how do they work?

Episode 1 Running Time 13:47 **Bet on Buffers** — At the very least, don't ever bet against them. Not when it comes to pH! Discover why buffers have a remarkable capacity to resist changes in pH.

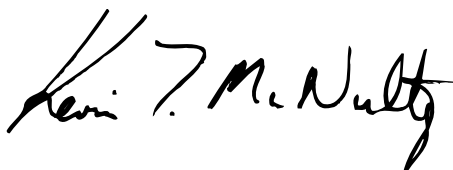
Episode 2 Running Time 8:26 **Buffering of Lakes** — An "acid rainfall" is poured through a column of marble chips to illustrate the formation of a buffer in lakes or streams with a limestone bed.

Episode 3 Running Time 12:56 **Buffer Balancing Acts** — The ability of a phosphate buffer and Alka-Seltzer® to resist pH changes highlights the physiological role of buffers within cells and in consumer products.

Date: 3/24/09

Location: www.flinnsci.com

Presenters: Penney Sconzo, Kathleen Dombrink, Irene Cesa



Kevin T. McNulty — VP Marketing and Sales