

Stuart Robert Ketcham
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PERSONAL

Born: 9 September 1953 in Seattle, WA.

EDUCATION

Undergraduate

1971-1975 University of Washington (Seattle, WA)
BS in Chemistry *cum laude*, Phi Beta Kappa, GPA: 3.62.

Graduate

1975-1985 Cornell University (Ithaca, NY)
PhD in Biochemistry with minor in Physical Chemistry

Advisor: Prof. Richard E. McCarty

Thesis: Studies of the Mechanism and Regulation of Coupling Factor 1 in Thylakoids.
("Coupling Factor 1" is the enzyme that synthesizes ATP during photosynthesis.)

Postdoctoral

1985-1988 Postdoctoral Research Associate with Prof. John R. Pringle
University of Michigan, Dept. of Biology (Ann Arbor, MI)
Molecular analysis of genes that eukaryotic cells need to undergo the dramatic changes in shape that occur during mitotic cell division.

EMPLOYMENT

1993-present Asst. Prof. of Biology & Chemistry at University of the Virgin Islands (UVI), St. Croix Campus; full-time
Courses taught: General Biology I-II (BIO 141-142); General Chemistry I-II (CHE 151-152)

1992-1993 Visiting Asst. Prof. of Biochemistry at UVI, St. Thomas Campus; full-time
Courses taught: Biochemistry (CHE 348); Cell Biology (BIO 421); Principles of Chemistry for the Life Sciences I-II (CHE 111-112)

1989-1991 Adjunct Lecturer in Biology at University of Michigan, Ann Arbor; part-time
Courses taught: Biochemistry (Bio 411); Genetics (Bio 305); Molecular Biology (Bio 427); Cell & Molecular Biology Lab (Bio 428)

PUBLICATIONS

2001. Ketcham SR & Y Petersen. "St. Croix Environmental Association's Plan to Develop the Southgate Pond Nature Preserve Using a Watershed Approach". In *Proceedings of the Sixth Annual Virgin Islands Nonpoint Source Pollution Conference*, pp. 67-70.

1990. Wright, S & SR Ketcham. "The Problem of Interpreting the US Biological Defense Research Program". In *Preventing a Biological Arms Race*; ed. by S Wright, pp 169-196, MIT Press, Cambridge, MA.

1984. Ketcham, SR, JW Davenport, K Warnke, & RE McCarty. "Role of the Gamma Subunit of Chloroplast Coupling Factor 1 in the Light-dependent Activation of Photophosphorylation and ATPase Activity by Dithiothreitol". *Journal of Biological Chemistry* 259, 7286-7293.

PRESENTATIONS AT PROFESSIONAL MEETINGS

Nov 2004 Ortiz, LA, SR Ketcham, RS Burton. Genetic Differentiation Observed Among Populations of the Sea Urchin *Diadema antillarum* in Marine Habitats Surrounding St. Croix, USVI. Poster presented by LAO at Annual Biomedical Research Conference for Minority Students in Dallas, TX.

Mar 2002 Ketcham, SR, V Tyson, L Thomas, J Jackson, S Mahurt & R Moorehead. NOVA Phase II Project at the University of the Virgin Islands to Revise, Implement and Extend a Science Education Course. At Fifth Project NOVA Leadership Development Conference, Greenbelt, MD. 10 min oral presentation by SK.

Dec 2000 Ketcham, SR & Y Petersen. St. Croix Environmental Association's Plan to Develop the Southgate Pond Nature Preserve Using a Watershed Approach. At Sixth Annual Virgin Islands Nonpoint Source Pollution Conference, St. Croix, VI. 30 min oral presentation, SK & YP co-presented.

Jan 2000 Moorehead, R, V Tyson, S Ketcham & S Mahurt. A New Environmental Science Course for Elementary Education Majors. At Second Annual Project NOVA Leadership Development Conference, Orlando, FL. Poster presentation by SK.

GRANT SUPPORT

Title: Study of Genetic Differentiation of *Diadema antillarum* to Improve Management of Caribbean Coral Reef Ecosystems

Agency: Virgin Islands-EPSCoR Program, funded by NSF

Term: 8/15/04-8/14/06

Goal: To study genetic differentiation of long-spined black sea urchins in the Caribbean to provide information that would ultimately improve management of coral reef ecosystems.

Role: PI

Title: Revision, Expansion and Implementation of a New Science Education Course

Agency: Subcontract Agreement 01-047 with Univ. of Alabama under NASA Prime Agreement NAG5-9388

Term: 6/1/01-12/31/04

Goals: (1) to revise an earlier pilot science course for education majors taught only on the UVI St. Croix Campus to include a pedagogy component;

(2) to facilitate approval of the course by UVI for incorporation into the catalog of permanent courses; and

(3) to offer the new course to students on both the St. Thomas and St. Croix campuses of UVI.

Role: PI