

EDUCATION

Postgraduate Certificate in Teaching & Learning in Higher Education (2000).

Education Development Unit. Napier University. Edinburgh.

Project - "A Web-based Self-study Program Teaching Evolution."

MBA (1996) Heriot-Watt Business School

Heriot-Watt University. Edinburgh, Scotland (UK)

Electives in *Negotiations* and *International Trade & Finance*

PhD (1990) Department of Biochemistry and Molecular Biology

Louisiana State University Medical Center. New Orleans, LA (USA)

Dissertation: "Avian Repetitive DNA"

MS (1981) Department of Biology

Saint Cloud State University. Saint Cloud, MN (USA)

Thesis: "Comparison of Blood Proteins from Allopatric Populations of the American Toad (*Bufo americanus*) by Isoelectric Focusing"

BA (1978). Department of Biology. (Chemistry Minor) GPA = 3.65

Northland College. Ashland, WI (USA) Environmental Sciences emphasis

TEACHING EMPLOYMENT

Current since 2001. **Adjunct Associate Professor** (part time)

University of Maryland University College, MD

Via distance learning, using WebTycho, teach **Selection and Evaluation of Biotechnology Projects** to students working towards a Master of Science in Technology Management. This course applies the methodologies of technology forecasting, technology assessment, project management and data auditing within the area of biotechnology.

Current since 1997. **Editor** (part-time)

Science Explained <http://www.synapses.co.uk/science> Global.

At this website I teach the **Science** behind the news headlines. Here I explain the "nuts and bolts" behind a variety of topics from the cloning of Dolly to the discovery of water on the Moon.

Current since 1996 **Virtual Instructor** (part-time)

Merlin's Academy. <http://www.synapses.co.uk/merlin> Global.

I have written self-paced, self-learning "hypertextbooks" in **Chemistry** and **Astronomy** specially designed for home schoolers and other distance learners. This project requires not only my skills as a science writer and teacher, but also considerable "e-business knowledge" for the creation, marketing and administration of this program.

2000. **Learning/Production Editor** (part-time)

Dundee College. Dundee. UK

Working closely with writers and DTP (Desk Top Publishing) personnel, I ensured that the **open/flexible learning materials** meet specific criteria, were logical in layout (following a clear learning path, with appropriate number of self-assessment questions and answers, activities and tutor marked assessments) and in a framework suitable for DTP staff. I also ensured that the materials were accurate (as both a peer-reviewer and proof-reader) and that the documentation was complete as I track the materials from the raw stage through to completion of the product.

1998-2000. **Teaching Associate** (Permanent, full-time post = "tenured")

Department of Biology. Napier University. Edinburgh.

This was a newly created post within the department and had an unusual remit. Half of my responsibility was to help teach the department's conventional courses. Specifically, I was the sole

instructor for (1st year) **Genetics**, and helped run the labs for (2nd year) **Biochemistry** and (1st year) **Microscopy/Dissection**.

The other half of my time was used to develop the department's **flexible (distance) learning modules**. This later role drew upon my internet knowledge and my web-design skills as well as my experience with DTP (Desk Top Publishing) and distance learning programs. It also required a great deal of organization and administration as I coordinated the programs and worked with a variety of other instructors to produce high quality learning materials. Some of these projects were web-based so I helped to create a "virtual classroom environment" for student support over the internet (using a software package called "*FirstClass*"). I was also chairman of the Flexible Learning Committee

1997. **Assistant Professor**

Saba University School of Medicine. Saba, Netherlands-Antilles.

Taught **Medical Genetics** to 25-30 medical students (6 lecture hours per week). I was the sole instructor for this class; teaching the principles and concepts upon which clinical genetic practice (diagnosis, treatment and counseling) is based. I also presented several lectures in **Medical Physiology** and **Medical Biochemistry**.

1994-1996. **Lecturer** (part-time)

Department of Biology. Napier University. Edinburgh.

Taught **Bio-Medical Investigations** to 40 (second year) undergraduates and **Pathobiology** to 4 graduate students. I developed both of these classes from "the ground up" (no assistance) and was solely responsible for teaching them. I was "handed" both these classes when the assigned instructor was suddenly unable to perform his duties. With less than one week before the start of classes, I prepared my notes and over the course of the next three months presented the lectures. In spite of the short preparation time I was able to present these classes with quality and clarity. (Such that I was re-hired and eventually given a permanent post).

1986-1990 **Teaching Assistant** (part-time as a graduate student)

Department of Biochemistry. LSU Medical Center. New Orleans.

I was part of a team teaching **Biochemistry**. Presented several lectures each semester to (second year) Nursing students. This job also required a great deal of tutoring to small groups and individuals. I presented monthly "review sessions" in which I condensed the previous 10 hours of lecture into 2 hours. Wrote and graded tests.

1978-1981 **Teaching Assistant** (part-time as a graduate student)

Department of Biology. Saint Cloud State University. Saint Cloud, MN.

Assisted in teaching **General Biology** and **Genetics**. I was responsible for preparing and running laboratory sections. Instructed undergraduates in all necessary techniques needed for the labs. This included teaching "fly genetics and husbandry", human blood typing and some cytogenetics. Tutored. Wrote and graded tests. Contributed to writing the "Student Lab Manual".

1975-1978 **Student Lab/Field Assistant** (part-time as an undergraduate student)

Department of Biology. Northland College. Ashland, WI.

Assisted in the field work in **Ecology**, **Ornithology**, **Ichthyology**, **Mammalogy** and **Limnology** where I taught identification and observation of wildlife and how to conduct wildlife, aquatic and vegetation surveys. In the laboratory I helped to teach **Genetics** and **General Biology**. Tutored. Oversaw fetal pig dissection (the major, one month, dissection project for General Biology students).

1976-1981 **Work Crew Leader**. (part-time summers)

National Park Service Apostle Islands National Lakeshore, WI.

I taught **Astronomy** and **Environmental Studies** to high school students (14-18 year olds) as part of the Youth Conservation Corp's Education Section. All of the teaching was in the field (often literally!).