



College of Arts and Applied Sciences

Full Name: Dr. Edwin Louis Woerner

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EDUCATION:

1. August 1990; Ph.D., University of Nebraska-Lincoln, USA. Mathematics and Statistics. Dissertation entitled: *Self-similar Solutions to the ZND Equations in Non-Homogenous Media*, directed by Dr. J. David Logan.
2. December 1985; MS, University of Nebraska-Lincoln. Major: Mathematics and Statistics.
3. December 1982; BS, University of Nebraska-Lincoln. Major: Mathematics and Statistics. Minor: Physics.

EXPERIENCE:

1. September, 2007 – Current; Assistant Professor of Mathematics, Dhofar University, Salalah, Sultanate of Oman.
2. September 2003 – June 2007; Associate Professor of Mathematics, American University in Dubai, Dubai, United Arab Emirates.
3. August 2001 – June, 2003; Assistant Professor of Mathematics, Prince Sultan Private University, Riyadh, Kingdom of Saudi Arabia.
4. August 2000 – June, 2001; Mathematics Instructor, American International School Egypt, Cairo, Egypt

5. August 1997 – June, 2000; Lecturer, United Arab Emirates University, Al Ain, United Arab Emirates.
6. August, 1990 – June 1997; Assistant Professor of Mathematics, University of South Dakota, Vermillion, SD, USA.
7. June 1991 – July 1997; Mathematics Instructor, Western Iowa Tech Community College, Sioux City, IA, USA. Part time.
8. September, 1984 – August, 1990, Graduate Teaching Assistant, University of Nebraska-Lincoln, Lincoln, NE, USA.

TEACHING

Frequently taught courses:

- 1. Calculus**
- 2. Differential Equations**
- 3. Mathematics for Business, and Social Sciences Discrete Mathematics**
- 4. Mathematics for Engineers**
- 5. Mathematics Analysis**
- 6. Numerical Analysis**
- 7. Statistics**

I am able to teach any undergraduate class in mathematics or statistics. I can teach courses in applied mathematics and mathematical analysis at the graduate level.

Master Theses:

I have directed several Master's degree students in Mathematics at the University of South Dakota, USA.

RESEARCH

Research Interest:

I am interested in mathematical physics, particularly areas involving the non-linear partial differential equations. My special interest is the symmetries that the important equations of mathematical physics exhibit. These include the equations of quantum mechanics and relativity, as well as those of reactive fluid flow. I have studied completely integrable systems.

PUBLICATIONS

Textbooks and Educational Applications:

I have prepared hundreds of pages of original educational materials for use in classrooms.

I have published many educational articles on astronomy and science education in a wide variety of venues.

From 2003-2006, I published *The Shooting Star*, a quarterly newsletter on science and mathematics for educators, for newspapers, and other interested individuals and groups in the Middle East.

COMMUNITY SERVICES

I. Academic Committees:

I serve on a variety of department and institutional committees.

II. Lectures and Presentations:

Public lectures concerning mathematics, science, as well as our experiences in the Middle East.