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Education

Texas State University-San Marcos; Aquatic Resources; Ph. D. currently enrolled (Dr. Dittmar Hahn)

Texas State University-San Marcos; Biology; M. S. 2005 (Dr. Robert McLean)

Southwest Texas State University; Microbiology; B. S. 2002

Professional Work Experience

2005-present Doctoral instructional assistant, Department of Biology, Texas State University-San Marcos

August 2005 Invited laboratory instructor, University of Geneva and Cantonal Institute of Microbiology, Bellinzona, Switzerland

2004–2005 Research laboratory manager for Dr. Robert McLean, Texas State University-San Marcos

2003–2004 Graduate instructional assistant, Department of Biology, Texas State University-San Marcos

Selected Publications and Presentations

1. Peduzzi, S., **A. K. Welsh**, P. Decristophoris, R. Peduzzi, D. Hahn, M. Tonolla. 2008. *Thiodictyon synthrophila* sp. nov. a new aggregate forming purple sulfur bacteria isolated from the chemocline of an alpine meromictic lake, Lake Cadagno. *International Journal for Systematic and Evolutionary Microbiology* (in review).
2. Peduzzi, S., **A. K. Welsh**, P. Decristophoris, R. Peduzzi, D. Hahn, M. Tonolla. 2008. *Thiocystis meromixensis* sp. nov. and *Thiocystis cadagnonensis* sp. nov., isolated from the chemocline of meromictic Lake Cadagno, Switzerland. *International Journal for Systematic and Evolutionary Microbiology* (in review).
3. **Welsh, A. K.**, B. S. Mirza and D. Hahn. Analyses of uncultured *Frankia* populations in root nodules of different alder species. 2008. In: R. Peduzzi, M. Tonolla, and R. Boucher-Rodoni (eds.), *Milieux extrêmes: conditions de vie en milieu alpin et milieu marin*. Documenta Centro di Biologia Alpina di Piora (in press).
4. Detecting nitrogen-fixing bacteria in complex environments. 2008. Biology Dept Spring Seminar Series, Texas State University-San Marcos.
5. **Welsh, A. K.**, D. J. Burke and D. Hahn. 2007. Analysis of nitrogen-fixing members of the ϵ -subclass of Proteobacteria in salt marsh sediments. *Applied and Environmental Microbiology* 73 (23):7747-7752.
6. Mirza, B. S., **A. K. Welsh**, and D. Hahn. 2007. Saprophytic growth of inoculated *Frankia* sp. in soil microcosms. *FEMS Microbiology Ecology* 62:280-289.
7. Merchant, M. M., **A. K. Welsh**, and R. J. C. McLean. 2007. *Rheinheimera texasensis* sp. nov., a halointolerant freshwater oligotroph. *International Journal for Systematic and Evolutionary Microbiology* 57: 2376-2380.

8. **Welsh, A. K.** and R. J. C. McLean. 2007. Characterization of bacteria in mixed biofilm communities using denaturing gradient gel electrophoresis. In: R. Coico, T. Kowalik, J. Quarles, B. Stevenson, and R. Taylor (eds.), *Current Protocols in Microbiology*, Unit 1E.1, Wiley Interscience Publishers.
9. Nitrogen-fixing organisms in salt marsh sediments. 2007. Biology Dept Spring Seminar Series, Texas State University-San Marcos.
10. McLean, R.J.C, **A.K. Welsh**, and V.A. Casasanto. 2006. Microbial survival in a space shuttle crash. *Icarus* 181: 323-325.

Activities

Awards

1. 2008. Durrenberger Scholarship for Women in Science, College of Science, Texas State University-San Marcos.
2. 2008. Outstanding Graduate Student Award for the College of Science, Texas State University-San Marcos.
3. 2008. Outstanding Graduate Student Award, Texas State Women's History Month Committee, Texas State University-San Marcos.
4. 2007. College Graduate Tuition Scholarship, Graduate College, Texas State University-San Marcos.
5. 2006. Durrenberger Scholarship for Women in Science, College of Science, Texas State University-San Marcos.
6. 2006. College Graduate Tuition Scholarship, Graduate College, Texas State University-San Marcos.
7. 2005. Outstanding Graduate Student Award for the College of Science, Texas State University-San Marcos.
8. 2005. College Graduate Tuition Scholarship, Graduate College, Texas State University-San Marcos.

Service

1. Vice president. 2007-2008. Biology Graduate Student Organization, Texas State University-San Marcos.
2. Committee member. 2006-2007. Budget committee, Biology Department, Texas State University-San Marcos.
3. President and founding member. 2005-2006. Biology Graduate Student Organization, Texas State University-San Marcos.