

### **Invited Talks by Dave Ward**

NASA Earth to Sky Explorer Inst., invited speaker, NASA Ames Res., Ctr., Palo Alto, CA, October 2004

Symposium entitled "Is microbial ecology fundamentally different? New insights into patterns and controls of microbial diversity" invited speaker. Ecol. Soc. Am. Annual Mtg., Portland, OR, 1-6 August 2004

Symposium entitled "Exploring the Bacterial Subspecies: clinical, ecological, evolutionary and taxonomic implications", invited speaker, Am. Soc. Microbiol. Annual Mtg., New Orleans, LA, 23-27 May 2004

Symposium entitled "Microscope to Macroscope: scaling microbial diversity and processes from cells to planets.", invited speaker, Am. Soc. Microbiol. Annual Mtg., New Orleans, LA, 23-27 May 2004

Astrobiology Science Conference session on Outreach Education, invited speaker, NASA Ames, Palo Alto, CA, 28 March-1 April, 2004.

DanBIF Conference on Molecular Diversity, invited speaker, Copenhagen, DK, 11-12 March 2004

American Society for Microbiology Biofilms 2003 Conf., Victoria, BC, CAN, 11/2004

Conference on Geothermal Biology and Geochemistry in Yellowstone National Park, Old Faithful, YNP, 10/2003

NASA Exobiology PI Workshop, NASA Ames Res. Ctr., Palo Alto, CA, 8/2003

American Society for Limnology and Oceanography Annual Mtg., Salt Lake City, UT 2/2003

Mayer Lecture, Wellesley College, Wellesley, MA, April 2000

NASA Workshop on Extremophiles, Conference speaker, 320 Ranch, Gallatin Valley, MT, April 2000

Interagency Bioremediation Research Program Review Meeting, invited seminar, Bloomingdale, IL, 3-5 Nov. 1999

Microbial Discovery Workshop, keynote speaker, LaCrosse, WI, August 1999

Symposium entitled "Who's out there? Implications of uncultured microorganisms and methods to identify them", invited speaker, Ann. Mtg. Am. Soc. Microbiol., Chicago, IL, June 1999

Symposium entitled "From physiological function through molecular analysis and back again", invited speaker, Ann. Mtg. Am. Soc. Microbiol., Chicago, IL, June 1999

Greater Yellowstone Coalition, lecture and fieldtrip, June 1999

Mountains and Minds lecture, Big Sky, MT, spring 1999

Symposium on Microbial Diversity, invited speaker, Am. Soc. Microbiol., Chicago, IL, August 1999

Körber Symposium on Molecular and Microsensor Studies of Microbial Communities, Plenary Speaker, Max-Planck Institute for Marine Microbial Ecology, Bremen, GE, September 1998

Society for Applied Microbiology Annual Meeting Keynote Speaker, Lancaster, UK, July 1998

Conference on The Greater Yellowstone Geo-Ecosystem: an Integrated View of Geology and Biology, Yellowstone National Park 125<sup>th</sup> Anniversary Symposium, Bozeman, MT, May 1998

Conference on Life in Extreme Environments, Yellowstone National Park 125<sup>th</sup> Anniversary Symposium, Bozeman, MT, May 1998

Workshop on Genetic Fingerprinting of Microorganisms, Max-Planck Inst. for Marine Microbial Ecology, Bremen, GE, February 1998

NASA PI Workshop, Palo Alto, CA, Nov. 1997

Symposium on Prokaryotic Diversity, Northwest Branch Meeting, American Society for Microbiology, Univ. of Washington, Seattle, WA, Sept. 1997

Michigan St. Univ. Center for Microbiology Student/Postdoc Retreat, Kellogg Biol. Stn., MI, Sept. 1996

Thermophiles '96 Conference, Univ. of Georgia, Athens, GA, Sept. 1996

Mini-symposium on Microbial Interactions, Marine Biological Lab Microbial Diversity Course, Woods Hole, MA, July 1996

Symposium on Teaching Microbial Diversity in a Microbiology Curriculum, Am. Soc. Microbiology., New Orleans, LA, May 1996

Beijerinck Centennial Meeting on Microbial Physiology and Gene Regulation: Emerging Principles and Applications, Den Hague, The Netherlands, December 1995

Symposium on Microbial Community Analysis, 7th Symp. of Intl. Soc. for Microbial Ecology, Santos, Brazil, August/September 1995 (also co-convenor)

Biodiversity, Ecology and Evolution of Thermophilic Microorganisms in Yellowstone National Park, Old Faithful, Yellowstone National Park, September 1995

Symposium on Communities as Units of Study in Microbial Ecology, Am. Soc. Microbiol., Washington, DC, May 1995

Deutsche Forschungsgemeinschaft Kolloquium des Schwerpunktprogramms on "Structure and function analysis of microbial communities", Bad Herrenalb, Germany, May 1994

5th Symposium on Chemical Evolution and the Origin and Evolution of Life, Palo Alto, CA, April 1994

NATO Workshop on Microbial Mats, Arcachon, FR, Sept./Oct. 1993

Minisymposium on Molecular Analysis of Microbial Community Structure, Microbial Diversity Course, Marine Biological Laboratory, Woods Hole, MA, June 1993

NSF Molecular Biology Workshop, University of Wisconsin-LaCrosse, June 1993

Symposium on Structural Heterogeneity and Gradient Formation within Biofilms, Am. Soc. Microbiol. Annu. Meetings, Atlanta, GA May 1993

Symposium 9 of the Center for Mikrobiel Okologi, Copenhagen, DK, December 1991

Summer Symposium, Gray Freshwater Biological Inst., Navarre, MN, July 1990

Symposium on Perspectives on the use of rRNAs for evolutionary and environmental studies, Am. Soc. for Microbiol. Annu. Meetings, Anaheim, CA May 1990

Greater Yellowstone Coalition Annual Meeting, Jackson Hole, WY, May 1990

Molecular Microbial Ecology Workshop, European Environmental Research Organization, Braunschweig, West Germany, April 1990

Workshop on adaptation of microorganisms to extreme environments, University of Groningen, The Netherlands, 5-8 June 1989 (one invited paper)

Dahlem Konferenzen on Structure and Function of Biofilms, Berlin, November 27-December 2, 1988 (author of background paper, see Publications)

Symposium on Ribosomal RNA: Molecular Biology, Phylogeny, Ecology, and Clinical Applications, Am. Soc. Microbiol., NW Branch Regional Meeting, Bozeman, MT, September 1988 (also convener).

Precambrian Paleobiology Research Group. UCLA, March 1984, February 1985, February 1986, February 1987, November 1987, March 1988 and August 1988; Palo Alto (an oral presentation or poster(s) were given at each meeting)

International Workshop on Microbial Mats: Physiological Ecology of Benthic Microbial Communities, Eilat, Israel, September 1987 (2 papers)

Symposium on the Ecology of Microbial Communities, Soc. Gen. Microbiol., St. Andrews, U.K., April 1987

Symposium on Microbial Ecology, Am. Soc. Microbiol. Regional Meeting, Vancouver, B.C., June 1986

Round Table on New Methods in Microbial Ecology, Am. Soc. Microbiol. Ann. Mtg, Las Vegas, NV, March 1985

Symposium on Microbial Activities Associated with Interfaces, Am. Soc. Microbiol. Ann. Meeting, St. Louis, MO, March 1984

Symposium on Microbial Mats, Marine Biological Laboratory, Woods Hole, MA., July 1982

Gordon Research Conference on the Origin of Life, New London, New Hampshire, July 1982

Conference on C, N, S Cycling in Sediments, Sonderborg, Denmark, May 1980

**Invited seminars at:**

Univ. of Aarhus (Denmark), Univ. of Groningen (The Netherlands), Univ. of Goteborg (Sweden), Univ. de Provence (Marsailles, France), Cornell Univ., Center for Great Lakes Studies (Milwaukee), Exxon Research and Engineering Co. Annandale, NJ), Oregon Graduate Center, Univ. Regensburg (FRG), Univ. Hamburg (FRG), Michigan State Univ., Idaho National Energy Lab, Cetus Corp., Univ. of Aberdeen, Inst. of Freshwater Ecology (Windermere, England), Univ. of Bristol (England), Lund Univ. (Sweden), Univ. Amsterdam (The Netherlands), Delft Technical Univ., Gesellschaft f. Biotechnologische Forschung (Braunschweig, GE) (2X), Univ. Antwerp (Belgium), Technische Univ. Muenchen (Germany), Max Plank Inst. Marine Microbiology (Bremen, GER); Stratagene Corp., LaJolla, CA; Univ. of Washington, Univ. of Idaho, Cornell Univ.; Univ. of Wisconsin-Madison; Colorado College; Montana State Univ. (Center for Biofilm Engineering, Biology Dept., Vet. Science Dept.); Univ. of Montana; Ohio State Univ.; U. Massachusetts-Amherst; N. Dakota St. Univ.; Washington St. Univ.; Ohio State Univ., Tech. Univ. of Delft (NL); Gesellschaft f. Biotechnologische Forschung (Braunschweig, GE), Univ. Aarhus, (DK), Univ. of Liverpool (UK), Univ. of Newcastle (UK), Netherlands Inst. Sea Research (NIOZ, NL), Louisiana State Univ.; Univ. of Otago (NZ); Cargill Industries, Dayton, OH; Rensselaer Polytechnic Inst., Troy, NY; McGill University, Montreal, Canada; Univ. Connecticut, Storrs, CT; New England BioLabs, Danvers, MA; Harvard Univ., Cambridge, MA; Northwestern Univ., Evanston, IL; Aarhus Univ., Aarhus, DK; Marine Biology Laboratory (Univ. of Copenhagen), Helsingor, DK; Netherlands Inst. Sea Research, Texel, NL; Univ. Barcelona, Barcelona, (Catalonia) Spain; Wesleyan Univ. Middletown, CT (2X); Dalhousie Univ., Halifax, NS, CA; South Carolina Univ., Columbia, SC; Montana St. Univ. Plant Sci. Dept., Bozeman, MT; Stanford, Palo Alto, CA; NASA-Ames Res. Ctr., Palo Alto, CA; Max-Planck Inst. for Terrestrial Microbiology, Marburg, DE; So. Ill. Univ., Carbondale, IL; Univ. Montana, Missoula, MT; MSU Geology Dept., Bozeman, MT; MSU Thermal Biology Inst., Bozeman, MT; U. Aarhus, DK; Bigelow Laboratory, Booth Bay Harbor, ME; Penn State Univ. Dept. of Biochem. And Mol. Biol., College Station, PA; Penn State Univ. Dept. of Geosciences, College Station, PA; MSU Microbiology Dept., Bozeman, MT.