

Curriculum Vitae

Gill Gregory Geesey

Present Position: Professor of Microbiology, Montana State University-Bozeman,
Bozeman, MT 59717

Education: University of California, San Diego, CA
Degree: B.A. in Biology, 1970
Oregon State University, Corvallis, OR
Degree: M.S. in Microbiology, 1973
Ph.D. in Microbiology, 1975

Research and Professional Experience:

Department of Microbiology, California State University, Long Beach, CA 90840

Assistant Professor of Microbiology, 1978-1984

Associate Professor of Microbiology, 1984-1989

Professor of Microbiology, 1989-1991

Department of Microbiology, Montana State University-Bozeman, Bozeman, MT 59717

Associate Professor of Microbiology, 1991-1993

Professor of Microbiology, 1993-present

Biotechnology Division, Idaho National Engineering and Environmental Laboratory, Idaho Falls, ID
83415

INEEL Fellow, September 2001-August 2003.

Specialty Biopolymers Corporation, Bozeman, MT 59715

Chief Scientific Officer, September 2003-June 2006

Professional Activities

Editorial Board Activities

Editorial Board Member of Applied and Environmental Microbiology, Jan 2000-Dec
2005

Editorial Board Member of Journal of Microbiological Methods. June 1984 – Dec 2001.

Editorial Board Member of Biofouling Journal. January 1987-June 1993.

North American Regional Editor of Biofouling Journal. July 1993-Aug 1996

Board of Director Activities

Member of Board of Directors of the Southern California Ocean Studies Consortium.
1978-1982, 1987-1991

Scientific Advisory Boards

Editorial Board Member of Applied and Environmental Microbiology, Jan 2000-Dec
2005

Member of the Scientific Advisory Board, American Water Works Association Research
Foundation, 1993-1999.

Workshops Organized

Co-organized Annual Workshop Series in Biological Fouling of Industrial Water
Systems. California State University, Long Beach. 1984-1988.

Co-organizer of Natural and Accelerated Bioremediation Research Program Workshop
on Metal-Microbe Interactions, October, 2000, Warrenton, PA

Organizations Founded

Founder and Director, Blue Water Task Force, Gallatin County, MT, 1999-2003.

Specialty Biopolymers Corp., Bozeman, MT. May 2003-June 2006.

Specialty Biopolymers LLC, Bozeman, MT. Dec 2008-present

Research Fellowships

Associated Western Universities Faculty Research Development Award to conduct research at the Idaho National Engineering Laboratory, Biotechnology Division. June 1985, June 1986, June 1987, June-July 1993.

William Evans Visiting Scientist, Dunedin, New Zealand, November 1985 - January 1986.

Visiting Scientist to Hasanuddin University, Ujung Pandang, Indonesia, August 5-25, 1989

Honorary Awards

Fellow American Academy of Microbiology, July 1995-present.

Research Awards

3M Corporation Research Award, June 1993.

American Society for Microbiology, Proctor & Gamble Award in Applied and Environmental Microbiology, 2001.

Patents

Patent Number 5,686,299, issued Nov. 11, 1997, "***Method and apparatus for determining nutrient stimulation of biological processes***". (Co-inventor with F. Colwell and R. Gillis)

Patent Application Serial No. 11/149,981. "***Composition and Methods Relating to an Adhesive Composition***". (Co-inventor with Anthony Haag)

Publications (179 total)

Journal Articles (102)

1. Geesey, G.G. and R.Y. Morita. 1975. Some physiological effects of near maximum growth temperatures on an obligately psychrophilic marine bacterium. *Can. J. Microbiol.* 21:811-818.
2. Geesey, G.G., W.T. Richardson, H.G. Yeomans, R.T. Irvin, and J.W. Costerton. 1977. Microscopic examination of natural sessile bacterial populations in an alpine stream. *Can. J. Microbiol.* 23:1733-1736.
3. Geesey, G.G., R. Mutch, J.W. Costerton, and R.B. Green. 1978. Sessile bacteria: an important component of the microbial population in small mountain streams. *Limnol. Oceanogr.* 23:1214-1223.
4. Geesey, G.G. and J. W. Costerton. 1979. Microbiology of a northern river: bacterial distribution and relationship to suspended sediment and organic carbon. *Can. J. Microbiol.* 25:1058-1062.

5. Geesey, G.G. and R.Y. Morita. 1979. Capture of arginine at low concentrations by a psychrophilic marine bacterium. *Appl. Environ. Microbiol.* 38:1092-1097.
6. Geesey, G.G. and R.Y. Morita. 1981. Relationship of cell envelope stability to substrate capture in a marine psychrophilic bacterium. *Appl. Environ. Microbiol.* 42:533-540.
7. Bray, R., A. Miller, and G.G. Geesey. 1981. The fish connection: a trophic link between planktonic and rocky reef communities? *Science* 214:204-205.
8. Mittelman, M.W., G.G. Geesey, and R.R. Hite. 1983. Epifluorescence microscopy: A rapid method for enumerating viable and nonviable bacteria in ultrapure-water systems. *Microcontamination* 1:32-37.
9. Salas, S.D. and G.G. Geesey. 1983. Surface attachment of a sediment isolate of *Enterobacter cloacae*. *Microb. Ecol.* 9:307-315.
10. Geesey, G.G., L. Borstad, and P.M. Chapman. 1984. Influence of flow related events on the concentration and distribution of metals in the lower Fraser River and a small tributary stream in British Columbia, Canada. *Water Res.* 18:233-238.
11. Geesey, G.G., G.V. Alexander, R.N. Bray, and A.C. Miller. 1984. Fish fecal pellets are a source of minerals for inshore reef communities. *Mar. Ecol. Prog-Series.* 15:19-25.
12. Mittelman, M.W. and G.G. Geesey. 1985. Copper-binding characteristics of exopolymers from a freshwater sediment bacterium. *Appl Environ. Microbiol.* 49:846-851.
13. Mittelman, M.W., G.G. Geesey, and R.M. Platt. 1985. Rapid enumeration of bacteria in purified water systems. *Med. Device Deionized Water* 2;144-149.
14. Platt, R.M., G.G. Geesey, J.D. Davis, and D.C. White. 1985. Isolation and partial chemical analysis of firmly-bound exopolysaccharide from adherent cells of a freshwater sediment bacterium. *Can. J. Microbiol.* 31:675-680.
15. Geesey, G.G., M.W. Mittelman, T. Iwaoka, and P.R. Griffiths. 1986. Role of bacterial exopolymers in the deterioration of metallic copper surfaces. *Materials Performance* 25; 37-40.
16. Nivens, D.E., P.D. Nichols, J.M. Henson, G.G. Geesey, and D.C. White. 1986. Reversible acceleration of the corrosion of AISI 304 stainless steel exposed to seawater induced by growth and secretions of the marine bacterium *Vibrio natriegens*. *Corrosion* 42:204-210.

17. Iwaoka, T., P.R. Griffiths, J.T. Kitasako, and G.G. Geesey. 1986. Copper coated cylindrical internal reflection elements for investigating interfacial phenomena. *Appl. Spectros.* 40:1062-1065.
18. Geesey, G.G., M.W. Mittelman, and V.T. Lieu. 1987. Evaluation of slime-producing bacteria in oil field core flood experiments. *Appl. Environ. Microbiol.* 53:278-283.
19. Geesey, G.G., T. Iwaoka, and P.R. Griffiths. 1987. Characterization of interfacial phenomena occurring during exposure of a thin copper film to an aqueous suspension of an acidic polysaccharide. *J. Colloid Interface Sci.* 120:370-376.
20. Jacq, E., G.G. Geesey, and D. Prieur. 1987. Etude preliminaire des communautes bacteriennes d'un site hydrothermal cotier (White Point, CA, USA). *Vie et Milieu* 37:59-66.
21. Jolley, J.G., G.G. Geesey, M.R. Hankins, R.B. Wright, and P.L. Wichlacz. 1988. Auger electron spectroscopy and x-ray photoelectron spectroscopy of the biocorrosion of copper by gum arabic, BCS and *Pseudomonas atlantica* exopolymer. *J. Surface Interface Anal.* 11:371-376.
22. Costerton, J.W., G.G. Geesey, and P.A. Jones. 1988. Bacterial biofilms in relation to internal corrosion monitoring and biocide strategies. *Materials Performance* 27(4):49-53.
23. Geesey, G.G., L. Jang, J.G. Jolley, M.R. Hankins, T. Iwaoka, and P.R. Griffiths. 1988. Binding of metal ions by extracellular polymers of biofilm bacteria. *Water Sci. Tech.* 11/12:161-165.
24. Jang, L.K., N. Harpt, T. Ugen, and G.G. Geesey. 1989. An iterative procedure based on Donnan equilibrium for calculating the polymer-subphase volume of alginic acid. *J. Polymer Sci. (Part 2)* 27(6):1301-1315.
25. Jacq, E., D. Prieur, P. Nichols, D.C. White, T. Porter, and G.G. Geesey. 1989. Microscopic examination and fatty acid characterization of filamentous bacteria colonizing substrata around subtidal hydrothermal vents. *Arch. Microbiol.* 152:64-71.
26. Jang, L.K., E. Quintero, G. Gordon, M. Rohricht, and G.G. Geesey. 1989. The osmotic coefficients of the sodium form of some polymers of biological origin. *Biopolymers* 28:1485-1489.
27. Quintero, E., K. Ishida, G. Gordon, and G.G. Geesey. 1989. Comparison of reduction methods for gas chromatography/mass spectrometry identification and quantitation of uronic acids in acidic polysaccharides. *J. Microbiol. Methods* 9:309-322.
28. Jolley, J.G., G.G. Geesey, M.R. Hankins, R.B. Wright, and P.L. Wichlacz. 1989. *In situ*, real time FT- IR/CIR/ATR study of the biocorrosion of copper by gum arabic, alginic

- acid, bacterial culture supernatant and *Pseudomonas atlantica* exopolymer. Appl. Spectrosc. 43:1062-1067.
29. Jolley, J.G., G.G. Geesey, M.R. Hankins, R.B. Wright, and P.L. Wichlacz. 1989. Auger electron and x-ray photoelectron spectroscopic study of the biocorrosion of copper by alginic acid polysaccharide. Appl. Surface Sci. 37:469-480.
 30. Jang, L.K., N. Harpt, D. Grasmick, L.N. Vuong, and G.G. Geesey. 1990. A two-phase model for determining the stability constants for interactions between copper and alginic acid. J. Phys. Chem. 94:482-488.
 31. Smith, J.J., E.J. Quintero, G.G. Geesey. 1990. A sensitive chromatographic method for the detection of pyruvyl groups in microbial polymers from sediments. Microb. Ecol. 19:137-147.
 32. Jang, L.K., G.G. Geesey, S.L. Lopez, S.L. Eastman, P.L. Wichlacz. 1990. Use of a gel-forming biopolymer directly dispensed into a loop fluidized bed reactor to recover dissolved copper. Wat. Res. 24:889-897.
 33. Geesey, G.G. and P.J. Bremer. 1990. Applications of Fourier transform infrared spectrometry to studies of copper corrosion under bacterial biofilms. Mar. Technol. Soc. J. 24(3):36-43.
 34. Jang, L.K., W. Brand, M. Resong, W. Maineri, G.G. Geesey. 1990. Feasibility of using alginate to absorb dissolved copper from aqueous media. Environ. Prog. 9:269-274.
 35. Jang, L.K., G.G. Geesey, S.L. Lopez, S.L. Eastman, P.L. Wichlacz. 1990. Sorption equilibrium of copper by partially-coagulated calcium alginate gel. Chem. Eng. Comm. 94:63-77.
 36. Bremer, P. and G.G. Geesey. 1991. Laboratory-based model of microbially induced corrosion of copper. Appl. Environ. Microbiol. 57:1956-1962.
 37. Bremer, P.J. and G.G. Geesey. 1991. An evaluation of biofilm development utilizing non-destructive attenuated total reflectance Fourier transform infrared spectroscopy. Biofouling 3:89-100.
 38. Bremer, P.J., G.G. Geesey, B. Drake, J.G. Jolley, M.R. Hankins. 1991. Characterization of a thin copper film to investigate microbial biofilm formation. Surface and Interface Anal. 17:767-772.
 39. Beech, I.B., C.C. Gaylarde, J.J. Smith, G.G. Geesey. 1991. Extracellular polysaccharides from *Desulfovibrio desulfuricans* and *Pseudomonas fluorescens* in the presence of mild and stainless steel. Appl. Microbiol. Biotechnol. 35:65-71.

40. Bremer, P.J., G.G. Geesey, B. Drake. 1992. Atomic force microscopy examination of the topography of a hydrated bacterial biofilm on a copper surface. *Curr. Microbiol.* 24:223-230.
41. Geesey, G.G., P.J. Bremer, J.J. Smith, M.Muegge, L. K. Jang. 1992. Two-phase model for describing the interactions between copper ions and exopolymers from *Alteromonas atlantica*. *Can. J. Microbiol.* 38:785-793.
42. Godbole, M.J., A.J. Pedraza, L.F. Allard, G. Geesey. 1992. Characterization of sputter-deposited 316L stainless steel films. *J. Materials Sci.* 27:5585-5590.
43. Geesey, G.G., M.W. Stupy, P.J. Bremer. 1992. The dynamics of biofilms. *Internat. Biodeter. Biodegrad.* 30:135-154.
44. Pedraza, A.J., M.J. Godbole, P.J. Bremer, R. Avci, B. Drake and G.G. Geesey. 1993. Stability in aqueous media of 316L stainless steel films deposited on internal reflection elements. *Appl. Spectrosc.* 47:161-166.
45. Davies, D.G., A.M. Chakrabarty and G.G. Geesey. 1993. Exopolysaccharide production in biofilms: substratum activation of alginate gene expression by *Pseudomonas aeruginosa*. *Appl. Environ. Microbiol.* 59:1181-1186.
46. Godbole, M.J., A.J. Pedraza, J.W. Park and G. Geesey. 1993. The crystal structure of stainless steel films sputter-deposited on austenitic stainless steel substrates. *Scripta Metallurgica et Materialia* 28:1201-1206.
47. Suci, P.A., M.W. Mittelman, F.P. Yu and G.G. Geesey. 1994. Investigation of ciprofloxacin penetration into *Pseudomonas aeruginosa* biofilms. *Antimicrob. Agents Chemother.* 38:2125-2133.
48. Davies, D.G. and G.G. Geesey. 1995. Regulation of the alginate biosynthetic gene *algC* in *Pseudomonas aeruginosa* during biofilm development in continuous culture. *Appl. Environ. Microbiol.* 61(3):860-867.
49. Suci, P.A. and G.G. Geesey. 1995. Investigation of alginate binding to mussel adhesive protein, polylysine and bovine serum albumin adsorbed to germanium substrata using attenuated total reflection infrared spectrometry. *J. Colloid Interface Sci.* 172:347-357.
50. Jang, L.K., D. Nguyen and G.G. Geesey. 1995. Selectivity of alginate gel for Cu vs. Co. *Water Res.* 29(1):307-313.
51. Jang, L.K., D. Nguyen and G.G. Geesey. 1995. Effect of pH on the absorption of Cu(II) by alginate gel. *Water Res.* 29(1):315-321.

52. Caesar-TonThat, T.-C., F. van Ommen Kloeke, G.G. Geesey and J.M. Henson. 1995. Melanin production by a filamentous soil fungus in response to copper and localization of copper sulfide by sulfide-silver staining. *Appl. Environ. Microbiol.* 61:1968-1975.
53. Jang, L.K., D.V. Nguyen, K. Kolostyak and G.G. Geesey. 1995. Addition of copper-sequestering agents to alginate gel to enhance copper recovery from aqueous media. *Water Res.* 29:2525-2529.
54. Suci, P.A., B. Frolund, E.J. Quintero, R.M. Weiner and G.G. Geesey. 1995. Adhesive extracellular polymers of *Hyphomonas* MHS-3: interaction of polysaccharides and proteins. *Biofouling* 9(2):95-114.
55. Baty, A.M., P.A. Suci, B.J. Tyler and G.G. Geesey. 1996. Investigation of mussel adhesive protein adsorption on polystyrene and poly(octadecyl methacrylate) using angle dependent XPS, ATR-FTIR and AFM. *J. Colloid Interface Sci.* 177:307-315.
56. Geesey, G.G., R.J. Gillis, R. Avci, D. Daly, M. Hamilton, P. Shope, and G. Harkin. 1996. Influence of surface features on bacterial colonization and subsequent substratum chemical changes on 316L stainless steel. *Corr. Sci.* 38(1):73-95.
57. Pendyala, J., R. Avci, G.G. Geesey, P. Stoodley, M. Hamilton, and G. Harkin. 1996. Chemical effects of biofilm colonization on 304 stainless steel. *J. Vac. Sci. Technol. A* 14(3):1755-1760.
58. Frolund, B., P.A. Suci, S. Langille, R.M. Weiner and G.G. Geesey. 1996. Influence of protein conditioning films on binding of a bacterial polysaccharide adhesin from *Hyphomonas* MHS-3. *Biofouling* 10:17-30.
59. Baty, A.M., B. Frolund, G.G. Geesey, S. Langille, E.J. Quintero, P.A. Suci and R.M. Weiner. 1996. Adhesion of biofilms to inert surfaces: A molecular level approach directed at the marine environment. *Biofouling* 10:111-121.
60. Abrahamson, M., Z. Lewandowski, G. Geesey, G. Skjak-Braek, W. Strand, B.E. Christensen. 1996. Development of an artificial biofilm to study the effects of a single microcolony on mass transport. *J. Microbiol. Meth.* 26:161-169.
61. Bremer, P.J. and G.G. Geesey. 1997. Determination of the feasibility of using attenuated total reflectance Fourier transform infrared spectroscopy to evaluate thermal aging of enamel-coated magnet wire. *J. Mater. Res.* 32:141-146.
62. Baty, A.M., P.K. Leavitt, C.A. Siedlecki, B.J. Tyler, P.A. Suci, R.E. Marchant and G.G. Geesey. 1997. Adsorption of adhesive proteins from the marine mussel, *Mytilus edulis*, on polymer films in the hydrated state using angle dependent XPS and AFM. *Langmuir* 13:5702-5710.

63. Suci, P.A., K.J. Siedlecki, R.J. Palmer, Jr., D.C. White and G.G. Geesey. 1997. Combined light microscopy and attenuated total reflection Fourier transform infrared spectroscopy for integration of biofilm structure, distribution and chemistry. *Appl. Environ. Microbiol.* 63:4600-4603.
64. Geesey, G., H.-J. Zhang, P. Suci, D. Davidson, A. Baty, and F. van Ommen Kloeke. 1998. Observations and interpretations of the performance of engineered materials for containment of spent nuclear fuels during interim storage: a need for improved corrosion monitoring capabilities? *Adv. Environ. Res.* 2:1-11.
65. Suci, P.A. and G. G. Geesey. 1998. Molecular level approach to microbial adhesion to inert surfaces. *Recent Research Results in Microbiol.* 2:107-113.
66. Guezennec, J., O. Ortega-Morales and G. Geesey. 1998. Bacterial colonization of artificial substrata in the vicinity of deep-sea hydrothermal vents. *FEMS Microb. Ecol.* 26:89-99.
67. Bhosle, N., P.A. Suci, A.M. Baty, R.M. Weiner, and G.G. Geesey. 1998. Influence of divalent cations and pH on adsorption of a bacterial polysaccharide adhesin. *J. Colloid Interface Sci.* 205:89-96.
68. Tide, C., S.R. Harkin, G.G. Geesey, P.J. Bremer, and W. Scholz. 1999. The influence of welding procedures on bacterial colonization of stainless steel weldments. *J. Food Engineer.* 42:85-96.
69. Van Ommen Kloeke, F., A.M. Baty, III, C.C. Eastburn, Z. Diwu, and G.G. Geesey. 1999. A new method for screening bacterial colonies for phosphatase activity. *J. Microbiol. Meth.* 38:25-31.
70. Zhang, H.-J., W.J. Dirk, and G.G. Geesey. 1999. Effect of a bacterial biofilm on the corrosion of galvanically coupled aluminum and stainless steel alloys under conditions simulating wet storage of spent nuclear fuel. *Corrosion J.* 55:924-936.
71. Van Ommen Kloeke, F. and G.G. Geesey. 1999. Localization and identification of populations of phosphatase-active bacterial cells associated with activated sludge flocs. *Microb. Ecol.* 38:201-214.
72. Jang, L.K., D. Nguyen and G.G. Geesey. 1999. Selectivity of alginate gel for Cu over Zn when acidic conditions prevail. *Wat. Res.* 33:2817-2825.
73. Jang, L.K., D. Nguyen and G.G. Geesey. 1999. An equilibrium model for adsorption of multiple divalent metals by alginate gel under acidic conditions. *Wat. Res.* 33:2826-2832.
74. Baty, A.M., C.C. Eastburn, Z. Diwu, S. Techkanrjanaruk, A.E. Goodman, and G.G. Geesey. 2000. Differentiation of chitinase active and inactive sub-populations of a marine bacterium during chitin degradation. *Appl. Environ. Microbiol.* 66:3566-3573

75. Baty, A.M., C.C. Eastburn, S. Techkarnjanaruk, A.E. Goodman, and G.G. Geesey. 2000. Spatial and temporal variations in chitinolytic gene expression and bacterial biomass production during chitin degradation. *Appl. Environ. Microbiol.* 66:3574-3585
76. Suci, P.A. and G.G. Geesey. 2000. Influence of sodium periodate and tyrosinase on binding of alginate to adlayers of *Mytilus edulis* foot protein 1. *J. Colloid Interface Sci.* 230:340-348.
77. Langille, S.E., G.G. Geesey, and R.M. Weiner. 2000. Polysaccharide-specific probes inhibit adhesion of *Hyphomonas rosenbergii* strain VP-6 to hydrophilic surfaces. *J. Ind. Microbiol. Biotechnol.* 25:81-85.
78. Neal, A.L., A. Dohnalkova, D. McCready, B.M. Peyton, and G.G. Geesey. 2001. Iron sulfides and sulfur species produced at hematite surfaces in the presence of sulfate-reducing bacteria. *Geochim. Cosmochim. Acta* 65:223-235.
79. Suci, P.A. and G.G. Geesey. 2001. Use of attenuated total reflection Fourier transform infrared spectroscopy to investigate interactions between *Mytilus edulis* foot proteins at a surface. *Langmuir* 17:2538-2540.
80. Suci, P.A. and G.G. Geesey. 2001. Comparison of adsorption behavior of two *Mytilus edulis* foot proteins on three surfaces. *Colloids and Surfaces B: Biointerfaces* 22:159-168.
81. Sani, R.K., G.G. Geesey, and B.M. Peyton. 2001. Assessment of Lead Toxicity to *Desulfovibrio desulfuricans* G20: Influence of Components of Lactate C medium. *Adv. Environ. Res.* 5:269-276.
82. Magnuson, T.S., N. Isoyama, A.L. Hodges-Myerson, G. Davidson, M.J. Maroney, G.G. Geesey, and D.R. Lovley. 2001. Isolation, characterization, and gene sequence analysis of a membrane associated 89 kDa Fe(III) reducing cytochrome *c* from *Geobacter sulfurreducens*. *Biochem. J.* 359:147-152.
83. Suci, P.A., G.G. Geesey, B.J. Tyler. 2001. Integration of Raman microscopy, differential interference contrast microscopy, and attenuated total reflection Fourier transform infrared spectroscopy to investigate chlorohexidine spatial and temporal distribution in *Candida albicans* biofilms. *J. Microbiol. Meth.* 46:193-208.
84. Neal, A.L., K.M. Rosso, G.G. Geesey, Y.A. Gorby, B.J. Little. 2003. Surface structure effects on direct reduction of iron oxides by *Shewanella oneidensis*. *Geochim. Cosmochim. Acta* 67:4489-4503.
85. Sani, R.K., B.M. Peyton, J.E. Amonette, and G.G. Geesey. 2004. Reduction of uranium (VI) under sulfate-reducing conditions in the presence of Fe(III)-(hydr)oxides. *Geochim. Cosmochim. Acta* 68:2639-2648.

86. Campbell, S., G. Geesey, Z. Lewandowski, and G. Jackson. 2004. Influence of the distribution of the manganese oxidizing bacterium *Leptothrix discophora* on ennoblement of 316L stainless steel. *Corrosion* 60:670-680
87. Neal, A.L., J.E. Amonette, B.M. Peyton, and G.G. Geesey. 2004. Uranium complexes formed at hematite surfaces colonized by sulfate-reducing bacteria. *Environ. Sci. Technol.* 38:3019-3027
88. Magnuson, T.S., A.L. Neal, and G. Geesey. 2004. Combining *in-situ* reverse transcriptase polymerase chain reaction, microscopy and X-ray photoelectron spectroscopy to investigate mineral surface-associated microbial activities. *Microb. Ecol.* 48:578-588.
89. Haag, A.P., R.M. Maier, J. Combie, and G.G. Geesey. 2004. Bacterially-derived biopolymer as wood adhesives. *Int. J. Adhesion Adhesives* 24:495-502.
90. Reardon, C.L., D.E. Cummings, L.M. Petzke, B.L. Kinsall, D.B. Watson, B.M. Peyton, and G.G. Geesey. 2004. Comparison of attached communities in pristine and uranium-contaminated regions of a Department of Energy subsurface site using molecular analysis of colonized hematite. *Appl. Environ. Microbiol.* 70:6037-6046.
91. Gonzalez-Gil, G., J.E. Amonette, M. Romine, Y.A. Gorby and G.G. Geesey. 2005. Bioreduction of natural specular hematite under flow conditions. *Geochim. Cosmochim. Acta.* 69(5):1145-1155.
92. Haag, A.P., G.G. Geesey and M.W. Mittelman. 2006. Bacterially derived wood adhesive. *Int. J. Adhesion Adhesives* 26(3):177-183.
93. Choi, D.W., C.J. Zea, Y.S. Do, J.D. Semrau, W.E. Antholine, M.S. Hargrove, N.L. Pohl, E.S. Boyd, G.G. Geesey, S.C. Hartsel, M.T. McEllistrem, C.J. Kisting, D. Campbell, V. Rao, A.M. de la Mora, and A.A. DiSpirito. 2006. Spectral, kinetic and thermodynamic properties of Cu(I)- and Cu(II)-binding by methanobactin from *Methylosinus trichosporium* OB3b. *Biochemistry* 45(5); 1442-1453
94. Choi, D.W., Do, Y.S., Zea, C.J., McEllistrem, M.T., Lee, S-W., Semrau, J.D., Pohl, N.L., Kisting, C.J., Scardino, L.L., Hartsel, S.C., Boyd, E.S., Geesey, G.G., Riedel, T.P., Kranski, K.A., Tritsch, J.R., Antholine, W.E., and A.A. DiSpirito. (2006) Spectral and thermodynamic properties of Ag(i), Au(III), Cd(II), Co(II), Fe(III), Hg(II), Mn(II), Ni(II), Pb(II), U(IV), and Zn(II) binding by methanobactin from *Methylosinus trichosporium* OB3b. *J. Inorgan. Biochem.* 100:2150-2161
95. Boyd, E.S., D.E. Cummings, G.G. Geesey. (2007) Mineralogy influences structure and diversity of bacterial communities associated with geological substrata in a pristine aquifer. *Microb. Ecol.* 54:174-182.
96. Boyd, E. S., R.A. Jackson, G. Encarnacion, J.A. Zahn, T. Beard, W.D. Leavitt, Y. Pi, C.L. Zhang, A. Pearson, and G.G. Geesey. (2007) Isolation, characterization, and ecology of

- sulfur-respiring *Crenarchaea* inhabiting acid-sulfate-chloride geothermal springs in Yellowstone National Park. *Appl. Environ. Microbiol.* 73: 6669-6677.
97. Geesey, G. and A. Mitchell. (2008) Need for direct measurement of coupled microbiological and hydrological processes in porous media to improve accuracy and scalability of reactive transport models. *J. Hydrol. Engineer.* 13(1):28-36.
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