

September 1, 2017

JOHN R. SCHWARZ

Present Positions: Regents and Senior Professor, Dept. of Marine Biology, Texas A&M University at Galveston (TAMUG)

Regents and Senior Professor, Graduate Faculty, Dept. of Oceanography Texas A&M University, College Station, Texas (TAMU)

Director, TAMUG Seafood Safety Laboratory, a US FDA, EPA and Texas Department of State Health Services certified facility for the bacteriological analysis of seafood and seawater.

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Education: B.S. Biology, Rensselaer Polytechnic Institute, 1967.

Ph.D. Molecular Biology, Rensselaer Polytechnic Institute, 1972.

Postdoctoral Research Associate, University of Maryland, 1972-1975 with Dr. Rita R. Colwell

Administrative Experience:

2010-2017	Head, Department of Marine Biology, (TAMUG)
2008-2010	Interim Head, Department of Marine Biology, (TAMUG)
2005- 2008	Deputy Head, Department of Marine Biology, (TAMUG)
1992-present	Director, Seafood Safety Laboratory, (TAMUG)
1983-1987	Head, Dept. of Marine Biology, (TAMUG)
1979-1981	Assistant Vice President for Academic Affairs, (TAMUG)
1978-1979	Assistant Dean for Academic Affairs, Moody College

Teaching Experience:

2012-present Regents Professor of Marine Biology, (TAMUG)
Regents Professor of Oceanography, (Graduate, TAMU)

1986-present Professor of Marine Biology, (TAMUG)
Professor of Oceanography, (Graduate, TAMU)

1980-1986 Associate Professor of Marine Biology, (TAMUG)
Associate Professor of Oceanography, (TAMU)

1976-present Member, Graduate Faculty, (TAMU)

1976-1980 Assistant Professor of Marine Biology. (TAMUG)

Courses Taught:

1976-2006. MARB 301 Genetics (4 cr) each fall & spring semester

1976-present. BIOL 351 Microbiology (4 cr) each fall & spring semester

Undergraduate Seminar

Graduate Seminar

Marine Microbiology – Graduate level

Students Mentored:

Undergraduate: 90+ students mentored in research laboratory
(approx. 2 students per year)

Graduate: Committee Chair - 28 MS; 3 PhD

Committee Member – 33 MS; 13 PhD

Research Interests:

Microbial Ecology of Fresh and Marine Waters. Marine Vibrios (*Vibrio vulnificus* and *Vibrio parahaemolyticus* in particular), Immunology and Seafood Safety/Microbiology.

Research Experience:

9/13 – Present Principal Investigator. Texas Department of State Health Services. Study and Analysis of Texas Oysters.

10/11- 4/12 Principal Investigator. Interstate Shellfish Sanitation Commission. Effects of Increased Salinity on Oyster Vibrio Populations

6/07-8/10 Co-Principal Investigator. Texas Commission on Environmental Quality. Survival and Potential Growth of *Escherichia coli* and *Enterococcus spp.* in Texas Bays and Tributaries.

11/04-5/07 Co-Principal Investigator. Texas Commission on Environmental Quality. Quantitative PCR Detection and Microbial Source Tracking of Enteric Viruses in Texas Bays and Tributary Waters.

9/01-Present Principal Investigator. Texas Department of State Health Services. Studies of *Vibrio* sp. Associated with Galveston Bay Oysters.

10/01-9/02 Co-Principal Investigator. Texas Sea Grant. NOAA. Levels of *Vibrio vulnificus* in the Mud Blisters of Texas Oysters.

1/00-8/02 Principal Investigator. State of Texas Advanced Technology Program. *Vibrio parahaemolyticus* and Texas Oysters: Biology and Public Health Significance.

4/99-8/01 Principal Investigator. State of Texas Department of Health. Studies of *Vibrio parahaemolyticus* Population Levels in Texas Oysters.

1/98-8/00 Principal Investigator. State of Texas Advanced Technology Program. Public Health, *Vibrio* and Texas Oysters: Post-Harvest Remediation.

9/97-7/99 Principal Investigator. U.S. FDA, ISSC and Texas Dept. of Health-Shellfish Safety Division. Rapid Post-Harvest Cooling of Texas Oysters.

8/96-7/97 Principal Investigator. U. S. FDA, ISSC and Texas Dept. of Health-Shellfish Safety Division Interim Control Plan for the Handling of Oyster Shellstock.

9/95-present Principal Investigator. Microbiology. FDA and State of Texas Dept. of Health *Vibrio vulnificus* Analysis Programs.

9/90- 9/94 Principal Investigator. Microbiology. Mitchell Realty Corp. Pirate's Cove Water Quality Monitoring Program.

1/90- 8/95 Principal Investigator. State of Texas Advanced Technology Program. Ecology of *Vibrio vulnificus* in Texas Oysters.

1/79-12/88 Principal Investigator. Office of Naval Research. Studies of Microbial Processes in Oceanic Nepheloid Layers.

4/78-7/79 Principal Investigator. Dept. of Energy. Biological/Chemical Study of Proposed Salt Dome Disposal Sites.

1/77-6/79 Principal Investigator. Bureau of Land Management. South Texas Outer Continental Shelf Benthic Microbiology Study.

7/74-10/74 Visiting Research Scientist. Ocean Research Institute. University of Tokyo. NSF U.S.-Japan Scientist Exchange Program.

9/72-12/75

Postdoctoral Research Associate. University of Maryland with Dr. Rita R. Colwell.

Research Cruises: Participated as Chief Scientist and Research Scientist in Twelve Major Research Cruises Totaling 287 Days at Sea, Plus Numerous Coastal and Bay Sampling Trips.

Professional Societies: American Society for Microbiology - Reviewer
Society for Industrial Microbiology - Reviewer
American Society for Limnology and Oceanography
Sigma Xi
American Society for the Advancement of Science - Reviewer
International Shellfish Sanitation Conference - Reviewer

Consulting Experience: U.S. Food and Drug Administration
ISSC - Interstate Shellfish Sanitation Conference
GOIC - Gulf Oyster Industry Council
DSHS - Texas Department of State Health Services
Hillman Shrimp and Oyster Company
Jeri's Seafood, Inc.
Johnny's Oyster and Shrimp, Inc.
Misho's Oysters
Prestige Oysters, Inc.
Redfish Unlimited

Funded Research Projects:

9/17 – 8/19 Principal Investigator. Texas Department of State Health Services. HB 1903.Study and Analysis of Texas Oysters. \$140,319.

9/15 – 8/17 Principal Investigator. Texas Department of State Health Services. HB 1903.Study and Analysis of Texas Oysters. \$200,000.

9/13 – 8/15 Principal Investigator. Texas Department of State Health Services. HB 1903.Study and Analysis of Texas Oysters. \$200,000.

9/12 – 8/13 Principal Investigator. Texas Department of State Health Services. Studies of *Vibrio* spp. In Texas Oysters. \$ 80,000.

10/11- 4/12 Principal Investigator. Interstate Shellfish Sanitation Commission. Effects of Increased Salinity on Oyster *Vibrio* Populations. \$19,000.

6/07-8/10 Co-PI. Texas Commission on Environmental Quality. Survival and Potential Growth of *Escherichia* and *Enterococcus spp.* in Texas Bays and Tributary Waters. \$ 1,359,000.

11/04-5/07 Co-P.I. Texas Commission on Environmental Quality. Quantitative PCR Detection and Microbial Source Tracking of Enteric Viruses in Texas Bays and Tributary Waters. \$ 191,000.

4/04- 8/12 P.I. State of Texas Health and Human Services Commission. Analysis of *Vibrio* spp. in Texas Oysters. \$ 611,500.

6/02- 8/02 P.I. State of Texas Advanced Technology Program Supplement. Summer Training for a High School Science Teacher. \$ 5,400.

5/02- 4/03 P.I. Microbiology. Baker Petrolite. Field Trials of a Biocide in Ocean-Going Vessel Ballast Tanks. \$ 27,821.

10/01- 9/02 Co- P.I. NOAA. Texas Sea Grant Program. The Gulf Oyster Industry Initiative. Do Polychete Annelid Mud Blisters in Oyster Shells Serve as Reservoirs for *Vibrio vulnificus* Infections in Humans. \$12,258.

9/01- 8/03 P.I. State of Texas Department of Health. Studies of *Vibrio* spp. Associated with Galveston Bay Oysters. \$ 254,250.

1/00- 8/02 P.I. State of Texas Advanced Technology Program. *Vibrio Parahaemolyticus* and Texas Oysters: Biology and Public Health Significance. \$192,600.

9/99- 8/01 P.I. State of Texas Department of Health. *Vibrio* Population Levels in Texas Oysters: Effects of Temperature and Salinity Levels on Pathogenic Strains. \$320,748.

4/99-11/99 P.I. State of Texas Department of Health. *Vibrio parahaemolyticus* in Texas Oysters: Population Levels and Pathogenicity. \$93,000.

3/99- 7/99 P.I. U.S. FDA and ISSC. Rapid Cooling of Sacked Texas Oysters. \$26,500.

1/98- 8/00 P.I. State of Texas Advanced Technology Program. Public Health, *Vibrio* and Texas Oysters: Post-Harvest Remediation. \$ 204,117.

9/97-6/98 P.I. U.S. FDA, ISSC and Texas Dept. of Health-Shellfish Safety Division. Rapid Post-Harvest Cooling of Texas Oysters. \$32,034.

8/96-7/97 P.I. U.S.FDA, ISSC and Texas Dept. of Health, Shellfish Safety Division. Effect of temperature upon *Vibrio vulnificus* populations in harvested Texas oysters. \$18,000.

9/95-1/96 P.I. U. S. FDA and Texas Dept. of Health-Shellfish Safety Division. Study of *Vibrio vulnificus* levels in Galveston Bay oysters. \$7,020.

6/94-10/95 P.I. (Microbiology). Mitchell Realty Corporation. Pirate's Cove Water Quality Monitoring Program. \$12,500.

5/93-4/94 P.I. (Microbiolog). Mitchell Realty Corporation. Pirate's Cove Water Quality Monitoring Program. \$15,400.

1/92-8/95	P.I. State of Texas Advanced Technology Program. Biology and Public Health Significance of <i>Vibrio vulnificus</i> in Texas Oysters. \$200,000.
10/91-9/92	P.I. Mitchell Realty Corporation. Microbiological Studies of Eckert's Bayou. \$6,000.
9/90-9/91	P.I. Mitchell Realty Corporation. Microbiological Studies of Eckert's Bayou. \$15,700.
1/90-8/93	P.I. State of Texas Advanced Technology Program. Biology and Public Health Significance of <i>Vibrio vulnificus</i> in Texas Oysters. \$206,000.
1/83-12/87	P.I. Office of Naval Research. Microbial Production of Nonconservative Gases: Association with Shallow Oceanic Nepheloid Layers. \$213,850.
1/82-12/82	P.I. Office of Naval Research. Microbial Production of Nonconservative Gases: Association with Shallow Oceanic Nepheloid Layers. \$110,000.
1/81- 12/81	P.I. Office of Naval Research. Microbial Production of Nonconservative Gases: Association with Shallow Oceanic Nepheloid Layers. \$77,000.
1/80- 12/80	P.I. Office of Naval Research. Microbial Production of Nonconservative Gases: Association with Shallow Oceanic Nepheloid Layers. \$92,500.
1/79-12/79	P.I. Office of Naval Research. Microbial Production of Nonconservative Gases: Association with Shallow Oceanic Nepheloid Layers. \$33,832.
9/78- 6/79	P. I. Bureau of Land Management. South Texas Outer Continental Shelf Synthesis Study - Microbiology. \$17,394.
4/78- 7/79	P.I. Department of Energy. Biological/Chemical Survey of Proposed Salt Dome Brine Disposal Sites off Louisiana - Microbiology. \$54,464
1/77-11/78	P.I. Bureau of Land Management. Benthic Bacteriology of the South Texas Outer Continental Shelf. \$63,732.
1/76-8/78	P.I. Moody College Organized Research Reserve. Various (3) projects investigating bacteria of the Upper Texas Gulf Coast and Galveston Bay. \$38,725.

Total Awarded \$ 5,132,683.

Publications:

Refereed Papers:

1. Robin Brinkmeyer, Rainer M.W. Amon, John R. Schwarz, Tara Saxton, Dustin Roberts, Sarah Harrison, Nicholas Ellis, Jessica Fox, Renée DiGuardi, Mona Hochman, Shuiwang Duan, Ron Stein, and Catherine Elliot. 2015. Distribution and Persistence of *Escherichia coli* and *Enterococci* in Stream Bed and Bank Sediments from two Urban Streams in Houston, TX. *Science of the Total Environment*. 502: 650-658.
2. Baumeister, L. Hochman M.E., Schwarz J.R., and R. Brinkmeyer. 2014. Occurrence of *Vibrio vulnificus* and Toxigenic *Vibrio parahaemolyticus* on Sea Catfishes from Galveston Bay, TX, USA. *J. Food Protection*. 77(10) 1784-1786.
3. Walton, W.C., Nelson, C., Hochman, M. and J.R. Schwarz. 2013. Preliminary Study of Transplanting as a Process for Reducing Levels of *Vibrio vulnificus* and *Vibrio parahaemolyticus* in Shellstock Oysters. *J. Food Protection*. 76(1) 119-123.
4. Lin, M. and J.R. Schwarz. 2004. Partial 16s rDNA Sequencing of *Vibrio vulnificus* Isolates from Galveston Bay Oysters and Water. *FEMS Microbial Ecology*, 45: 23-27.
5. Lin, M., D. Payne and J.R. Schwarz. 2003. Genetic Diversity of *Vibrio vulnificus* in Galveston Bay Oysters and Water as Determined by RAPD PCR. *Appl. Environ. Microbiol.*, 69(6):3170-3175.
6. Vanoy, R.W. and J.R. Schwarz. 2001. Survival of *Vibrio vulnificus* in *Crassostrea virginicus* after One Year of Simulated Winter Conditions. Report to State Committee for the Reduction of *Vibrio vulnificus* in Texas Oysters. Seabrook, TX. 10 pp.
7. Schwarz, J.R., R. Bielby, S. Burkett, J. DiGialleonardo, C. Fallin, D. Hochman, M. Lin, J. McAuliffe, M. Schweighofer, R. W. Vanoy and L. Wolfe. 2000. *Vibrio Vulnificus* and *Vibrio parahaemolyticus*: Distribution and Population Densities of Pathogenic and Non-pathogenic Strains. Proc. 25th Anniversary Meeting, Seafood Science and Technology. 11 pp.
8. Schwarz, J.R., R. Bielby, S. Burkett, D. Hochman, M. Lin, M. Schweighofer and L. Wolfe. 1999. Effects of Rapid Chilling on *Vibrio vulnificus* Populations in Oyster Shellstock. Report to U.S. Food and Drug Administration and Interstate Shellfish Sanitation Conference. 15 pp.
9. Schwarz, J.R., C. Fallin and R.W. Vanoy. 1994. Occurrence of *Vibrio vulnificus* in Galveston Bay oysters. In : M.L. Tamplin, ed. Seasonal Occurrence of *Vibrio vulnificus* in Shellfish, Seawater and Sediment of U. S. Coastal Waters: Influence of Environmental Factors on Survival/ Virulence. pp. 23-32.

10. Schwarz, J.R., C. Fallin and R.W. Vanoy. 1992. Ecology and Association of *Vibrio vulnificus* with the American Oyster. NOAA Workshop on *Vibrio vulnificus* in the Environment. pp. 32-47.
11. Vanoy, R.W., M.L. Tamplin and J.R. Schwarz. 1992. Ecology of *Vibrio vulnificus* in Galveston Bay oysters, suspended particulate matter and seawater: Detection by monoclonal antibody - immunoassay - most probable number procedures. J. Indust. Microbiol. 9: 219-223.
12. La Rock, P. A., J. R. Schwarz and K. Hofer. 1988. Pulse Labeling: An improved method for measuring microbial growth rates in the ocean. J. Microbiol. Methods 8: 281-297.
13. Schropp, S. M., M. I. Scranton and J. R. Schwarz. 1987. Dissolved hydrogen levels, facultative hydrogen-producing bacteria and hydrogen production rates in the western North Atlantic Ocean and Gulf of Mexico. Limnol. Oceanog. 32: 396-402.
14. Schropp, S. J. L. A. Loeblich and J. R. Schwarz. 1987. Hydrogen Production by microorganisms from the Sargasso Sea. J. Geomicrobiol. 5: 149-158.
15. Schwarz, J. R., L. A. Loeblich and S. J. Schropp. 1986. Microbial hydrogen production potential in shallow oceanic nepheloid layers. Proc. Second Intern. Colloquium on Marine Bacteriology. Brest, France. pp. 199-208.
16. Schropp, S. J., L. A. Loeblich and J. R. Schwarz. 1985. Nitrous Oxide production and denitrification potential of oceanic waters. Dev. Indust. Microbiol. 26: 661-674.
17. Schropp, S. J. and J. R. Schwarz. 1984. Microbial Hydrogen Production in the Mediterranean and Caribbean Seas. Dev. Indust. Microbiol. Vol. 25: 717-725.
18. Schropp, S. J. and J. R. Schwarz. 1983. Nitrous Oxide production by Denitrifying Microorganisms from the eastern tropical North Pacific and the Caribbean Sea. Geomicrobiol. J. 3: 17-31.
19. Alexander, S. K., S. J. Schropp, and J. R. Schwarz. 1982. Spatial and seasonal distribution of hydrocarbon-utilizing bacteria of sediment from the northwestern Gulf of Mexico. Contributions in Marine Science 25: pp. 13-19.
20. Alexander, S. K. and J. R. Schwarz. 1982. Assessing the effects of oil on the activity of salt marsh microbial populations. In: Progress in Wetlands Utilization and Management. pp. 159-164.
21. Alexander, S. K. and J. R. Schwarz. 1980. Short term effects of South Louisiana and Kuwait crude oils on glucose utilization by marine bacterial populations. Appl. Environ Microbiol. 40: 341-345.
22. Simidu, U., N. Taga, R. R. Colwell, and J. R. Schwarz. 1980. Heterotrophic bacterial flora of the seawater from the Nansei Shoto (Ryukyo Retto) area. Bull. Jap. Soc. Sci. Fisheries. 46: 505-510.
23. La Rock, P. A., R. D. Lauer, J. R. Schwarz, K. W. Watanabe, and D. A. Wiesenburg. 1979. Microbial biomass and activity distribution in an anoxic, hypersaline basin. Appl. Environ. Microbiol. 37: 466-470.
24. Brooks, J. M., B. B. Bernard, W. M. Sackett, and J. R. Schwarz. 1979. Natural gas seepage on the South Texas Shelf. In: Offshore Technology Bulletin. Houston, Texas. pp. 471-478.

25. Schwarz, J.R. and S.K. Alexander.1979. Bacteriology of brine from salt domes. In: Bacteriology in Biological and Chemical Surveys of Salt Dome Disposal Sites off Louisiana. DOE. pp. 78 - 89.
26. Schwarz, J. R. , S.K. Alexander , C.S. Giam and H. S. Chan. 1979. Analysis of benthic bacteria of the South Texas outer continental shelf. In: Environmental Studies of the South Texas Outer Continental Shelf – Biology and Chemistry BLM 1 : 15.1 - 15.29.
27. Schwarz, J.R. S. K. Alexander, V.L. Carpenter, S.J. Schropp and J.C. Clary. 1979. Benthic bacteria. In : Environmental Studies of the South Texas Outer Continental Shelf - Biology and Chemistry. BLM. 1: 10.1 - 10.31.
28. Schwarz, J.R. and R. R. Colwell. 1976. Microbiol activities under deep-ocean conditions. Dev. Indust Microbiol. 17 :299-304.
29. Schwarz, J. R., A. A. Yayanos and R. R. Colwell. 1976. Metabolic activities of the intestinal Microflora of a deep-sea invertebrate. Appl. Environ. Microbiol. 31: 46-48.
30. Schwarz, J. R., J.D. Walker and R. R. Colwell. 1975. Deep-sea bacteria: Growth and utilization of n-hexadecane at in situ temperature and pressure. Can. J. Microbiol. 21: 682-687.
31. Schwarz, J. R. and R. R. Colwell. 1975. Heterotrophic activity of deep-sea bacteria. Appl. Microbiol. 30: 639-649.
32. Schwarz, J. R., J. D. Walker and R. R. Colwell. 1974. Deep-sea bacteria: Growth and utilization of hydrocarbons at ambient and in situ pressure. Appl. Microbiol. 28: 982-986.
33. Schwarz, J. R. and R. R. Colwell. 1974. Effect of hydrostatic pressure on the viability of *Vibrio parahaemolyticus*. Appl. Microbiol. 28: 977-981.
34. Swartz, R.W., J. R. Schwarz and J. V. Landau. 1974. Comparative effect of pressure on protein and RNA synthesis in bacteria isolated from marine sediments. In: Effects of the Ocean Environment on Microbial Activities. Univ. Park Press, Baltimore, MD. pp. 145-159.
35. Schwarz, J. R., J. D. Walker and R.R. Colwell. 1974. Growth of deep-sea bacteria on hydrocarbons at ambient and in situ pressures. Dev. Indust. Microbiol. 15: 239-249.
36. Schwarz, J. R. and J. V. Landau. 1972. Inhibition of cell-free protein synthesis by hydrostatic pressure. J. Bacteriol. 112: 1222-1227.
37. Schwarz, J.R. and J.V. Landau. 1972. Hydrostatic pressure effects on *Escherichia coli*: Site of inhibition of protein synthesis. J. Bacteriol. 109: 945-948.

Book:

Colwell, R. R., R. K. Sizemore, J. F. Carney, R. Y. Morita, J. D. Nelson, J. H. Pickar, J. R. Schwarz, S. D. Van Valkenburg, J. D. Walker and R. T. Wright. 1975. In: Marine and Estuarine Microbiology. University Park Press. Baltimore Maryland.

Abstracts and Technical Reports:

1. Schwarz, J.R. 2013. Comparative Resistance of *Vibrio* spp. to Cold Water During Spring Grow out and Fall Die off. ISSC Report on Oyster Pathogens.
2. Schwarz, J. R. 2011. Increased Salinity as a Factor in Reducing *Vibrio* spp. ISSC Biennial Meeting. Seattle, WA.
3. Schwarz, J.R. 2009. Efficacy of Hydrostatic Pressure in Eliminating *Vibrio* species in Texas Oysters. ISSC Biennial Meeting. Manchester, NH.
4. Schwarz, J.R. 2008. Temperature as a Driving Factor in *Vibrio vulnificus* levels in Galveston Bay, Texas. Texas DSHS Regional workshop. Austin.
5. Schwarz, J.R. 2006. Comparison of Gene Probe and mAB methodologies for Detecting *Vibrio* species. Seafood Science Technology Annual Meeting, Corpus Christi, TX.
6. Schwarz, J.R. 2005. Methodologies for Rapid Detection of *Vibrio vulnificus* in Oysters and Coastal Waters. ISSC Interim Meeting. Point Clear, AL.
7. Schwarz, J.R. 2003. Strategies for reducing the Incidence of *Vibrio* species in Oysters Harvested in Gulf Coast States. Science and Technology Society of the Americas. Annual Meeting. Biloxi, MS. and TAMU Texas Science Partnership Meeting, College Station, Texas.
8. Schwarz, J.R. 2003. Validation of Individual Quick Freezing (IQF) as a Post- Harvest Oyster Treatment Process for *Vibrio vulnificus* Remediation. Seafood Science and Technology Annual Meeting, Biloxi, MS.
9. Schwarz, J. R. 2001. Incidence of Pathogenic *Vibrio parahaemolyticus* in Texas Oyster Shellstock over a Three-Year Period. Meeting of the State of Texas Oyster Council. Austin, TX.
10. Schwarz, J.R. 2001. Efficacy of Direct Plating in Enumerating tdh+ *Vibrio parahaemolyticus* in Oyster Shellstock. Ann. Meeting Interstate Shellfish Sanitation Conference. Norfolk, VA.
11. Schwarz, J.R. 2000. Frequency of Occurrence of Pathogenic *Vibrio parahaemolyticus* in Texas Oysters. Joint Annual Meeting of the Gulf Oyster Industry Council and the Southeast Atlantic Shellfish Association. New Orleans, LA.
12. Schwarz, J.R. 2000. Comparison of tdh+, tdh- and tlh gene-containing *Vibrio parahaemolyticus* strains in Texas oysters. Ann. Meeting Interstate Shellfish Sanitation Conference. Scottsdale, AZ.
13. Schwarz, J. R. 1999. Pathogenic *Vibrio parahaemolyticus* Population Levels in Galveston Bay Oyster Shellstock. Ann. Meeting Interstate Shellfish Sanitation Conference. New Orleans, LA
14. Schwarz, J. R. 1998. *Vibrio parahaemolyticus* Population Levels in Texas Oysters. Ann. Meeting Gulf Oyster Industry Council.
15. Schwarz, J.R., S. Edmondson and J. DiGialleonardo. 1997. Interim Control Plan Evaluation: Effect upon the Population Levels of *Vibrio vulnificus* in the American Oyster. Technical Report to the Food and Drug Administration and the Interstate Shellfish Sanitation Conference.

16. Schwarz, J.R. and J. DiGialleonardo. 1996. Effect of Harvest Time and Temperature on *Vibrio vulnificus* Levels in Shellstock Oysters. Texas Department of Health Report for the Shellfish Safety Division.
17. Schwarz, J.R. T.A. Schirm and J. DiGialleonardo. 1995. Effects of Refrigerated Conditions Upon *Vibrio vulnificus* Populations in Warm Water Harvested Oysters. Technical Data Report prepared for the U.S. Food and Drug Administration. 12 pp.
18. Schwarz, J.R., C. Fallin and R.W. Vanoy. 1995. Occurrence of *Vibrio vulnificus* in Galveston Bay oysters. Ann. Meeting Amer. Soc. Microbiol.
19. Vanoy, R.W. and J.R. Schwarz. 1994. Comparison of techniques for the detection and enumeration of *Vibrio vulnificus* in oysters and seawater. Ann. Meeting Soc. Industr. Microbiol.
20. Schwarz, J.R. 1994. Varying effects of temperature and salinity on the survival of *Vibrio vulnificus* in Galveston Bay waters. Ann. Meeting Soc. Industr. Microbiol.
21. Schwarz, J.R., R.W. Vanoy M.E. Schweighofer and C. Fallin. 1993. Seasonal occurrence and survival of *Vibrio vulnificus* in Texas estuarine waters. Gordon Research Conference on Applied and Environmental Microbiol.
22. Vanoy, R.W., C. Fallin and J.R. Schwarz. 1992. Ecology and Association of *Vibrio vulnificus* with the American Oyster *Crassostrea virginica* in Texas Bays. NOAA Workshop on *Vibrio vulnificus* in the Environment. Gainesville, FL.
23. Vanoy, R.W., M.L. Tamplin and J. R. Schwarz. 1991. Monoclonal antibody detection of *Vibrio vulnificus* and its association with Galveston Bay oyster reefs. Ann. Meeting of the Society for Indust. Microbiol. Philadelphia, PA.
24. Schwarz, J. R. 1991. *Vibrio vulnificus* and its association with Galveston Bay oysters. Gordon Research Conference on Applied and Environmental Microbiol.
25. Schwarz, J. R. 1989. Immunological detection of hydrogen producing bacteria in ocean fronts. Gordon Research Conference on Applied and Environmental Microbiol.
26. Schwarz, J. R. 1988. Immunofluorescent detection of hydrogen-producing bacteria in the Western Mediterranean Sea. Proc. Amer. Soc. Microbiol.
27. Schwarz, J. R. 1988. Enhanced microbial activities along the Oran-Almeria front: correlation with physical, chemical and other biological parameters. Proceedings of the American Geophysical Union Ocean Sciences Meeting.
28. Schwarz, J. R. 1987. Microbial activities along the Oran-Almeria Front in the Mediterranean Sea. Gordon Research Conference on Applied and Environ. Microbiol.
29. Schwarz, J. R. and S. J. Schropp. 1986. Microbial gas production in the ocean: enumeration, distribution and rate of production. Proc. Fourth International Symposium in Microbial Ecology. Ljubljana, Yugoslavia.
30. Schropp, S. J., L. A. Loeblich and J. R. Schwarz. 1986. Production of reduced trace gases by oceanic bacteria. Proc. Amer. Geophys. Union Ocean Sciences Meeting.

31. Schwarz, J. R. and S. J. Schropp. 1985. Immunofluorescent enumeration of hydrogen producing bacteria and their relationship to In Situ hydrogen levels. Gordon Research Conference on Appl. and Environ Microbiol.
32. Loeblich, L. A., S. J. Schropp, S. L. Jones and J. R. Schwarz. 1985. Fluorescent antibody enumeration of hydrogen producing marine bacteria. Proc. Ann. Meeting Amer. Soc. Microbiol.
33. Schropp, S. J., L. A. Loeblich, M. I. Scranton and J. R. Schwarz. 1985. Dissolved hydrogen and hydrogen production from the Gulf of Mexico and Western North Atlantic Ocean. Proc. Ann. Meeting Amer. Soc. Microbiol.
34. Schwarz, J. R., L. A. Loeblich and S. J. Schropp. 1984. Microbial Production of reduced trace gases in shallow oceanic nepheloid layers. Proc. Second International Colloquium of Marine Bacteriology. Brest, France.
35. Schropp, S. J., and L. A. Loeblich, and J. R. Schwarz. 1984. Nitrous oxide production and denitrification potential of oceanic waters. Proc. Ann. Meeting Soc. Industrial Microbiol. Ft. Collins, Colorado.
36. Schropp, S. J. and J. R. Schwarz. 1983. Microbial hydrogen production in the Mediterranean and Caribbean Seas. Proc. Ann. Meeting Soc. Industr. Microbiol. Sarasota, Florida.
37. Schwarz, J. R., L. A. Loeblich, and S. J. Schropp. 1983. Hydrogen production by bacteria from oligotrophic waters. Gordon Research Conference on Microbial Degradation.
38. Schropp, S. J., L. A. Loeblich, and J. R. Schwarz. 1983 hydrogen production by Sargasso Sea bacteria. Proc. Ann. Meeting Amer. Soc. Microbiol.
39. Schropp, S. J. and J. R. Schwarz. 1982. Microbial production of hydrogen in the Mediterranean Sea. Proc. Ann. Meeting Amer. Soc. Microbiol.
40. Schropp, S. J. and J. R. Schwarz. 1981. Nitrous oxide production by particulate-associated bacteria from nepheloid maxima of the oceans. Proc. Ann. Meeting Amer. Soc. Microbiol.
41. Alexander, S. K. and J. R. Schwarz. 1981. Effects of four oils on glucose and glutamic acid mineralization by estuarine bacteria. Proc. Ann. Meeting Amer. Soc. Microbiol.
42. Alexander, S. K. and J. R. Schwarz. 1980. Effect of South Louisiana and Kuwait crude oils on the heterotrophic activity of bacteria from the Gulf of Mexico region. Proc. Ann. Meeting Amer. Soc. Microbiol.
43. Schropp, S. J., S. K. Alexander and J. R. Schwarz. 1980. Distribution of hydrocarbon-degrading bacteria in sediments from the Gulf of Mexico region. Proc. Ann. Meeting Amer. Soc. Microbiol.
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Committee Memberships:

1976-1978	Faculty Advisory Council - TAMUG
1977-1978	Campus Development Council – TAMUG
1978-1981	Academic Council - TAMUG - Vice Chairman
1978-1981	Administrative Planning Council – TAMUG
1978-1981	Academic Operations Committee – TAMU
1978-1981	Curriculum Committee – TAMU
1978-1981	Placement Committee for International Students – TAMU
1978-1979	Scholarship and Awards Committee – TAMUG
1979-1980	Title IX-Sec 504 Ad Hoc Committee – TAMUG-Chairman
1981-1984	Campus Development Council – TAMUG
1981-1982	Academic Appeals Committee - Chairman – TAMUG
1982-1983	Student Judicial Board - Faculty Advisor – TAMUG
1983-1984	Computer Committee – TAMUG
1983-1987	Academic Council – TAMUG

1983-1987	Long -Range Planning Committee – TAMUG
1983-1997	Recruiting Committee – TAMU
1989-1995	Tenure Advisory Committee – TAMUG
1989-1997	Scholarship and Awards Committee – TAMUG
1991	Galveston Campus Dean Selection Committee
1995-1998	Chairman of MARB Promotion & Tenure Committee – TAMUG
1998-2004	Faculty Advisory Committee, Member – TAMUG
2001-2004	Member, University Research Advisory Council – TAMUG
2001-2006	Chairman, University Discrimination Appeals Panel – TAMUG
2002-2005	Member, University Tenure and Promotion Committee – TAMUG
2003-2005	Member, MARB Tenure and Promotion Committee – TAMUG
2005-2014	Member, Academic Advancement Committee – TAMUG
2006-2015	Chairman, Parking Citation Appeals Committee – TAMUG
2008-2016	Member, Graduate Instruction Committee – TAMUG
2008-2017	Member, Academic Advisory Committee – TAMUG
2013- present	TAMUG Conflict of Interest Official
2014- 2017	Member, Committee for the Building Environment – TAMUG
2014- 2017	A2C Department Head Committee - TAMUG

Teaching Awards and Student Evaluations

2002-2003	Distinguished Achievement Teaching Award- College Level The Association of Former Students of Texas A&M University
2006	William P. Ricker Distinguished Faculty Award – TAMUG
2009	TAMUS Chancellor’s Student Led Assessment of Teaching Excellence Award
2010	TAMUS Chancellor’s Student Led Assessment of Teaching Excellence Award
2011	TAMUS Chancellor’s Student Led Assessment of Teaching Excellence Award

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| 2012 | Distinguished Achievement Teaching Award – University Level
The Association of Former Students of Texas A&M University |
| 2012 | Regents Professor Designation, The Texas A&M University System Board of Regents |

Student Course Evaluations (TAMUG Students)

Mean Instructor Score = 4.80 (Range 4.70-5.00) for past five years teaching BIOL 351 Microbiology

Scale from 1 to 5, with 5 being the best score possible (5 = strongly agree, 4 = agree, 3 = neutral, 2 = disagree, 1 = strongly disagree). Questions include items regarding instructor's knowledge of subject matter, enthusiasm, clear instruction, respect toward students, ability and willingness to help students outside class, and whether this is overall a good instructor.

Outside Activities and Awards:

- 1978 – present Member, Rotary Club of Galveston Island
- 1980 – 1983 Member, Board of Directors, Rotary Club of Galveston Island
- 1983 – 1991 Treasurer, Rotary Club of Galveston Island
- 1986 Rotary - Paul Harris Fellow Award – 1st Award
- 1988 -1989 Rotarian of the Year, Galveston Island
- 1990 – present Member, Propeller Club, Port of Galveston
- 1993 – 1994 Vice-president, Rotary Club of Galveston Island
- 1994 – present Treasurer, Rotary Club of Galveston Island
- 1997 – 1998 Outstanding Rotarian of the Year
- 1998 – present Member, Sunday Morning Coffee Club, Galveston
- 2000 – present Member, Board of Governors, Propeller Club # 10, Port of Galveston
- 2001 – 2016 Member, Interstate Shellfish Sanitation Conference, Research Guidance Committee

- 2001 – present Member, Interstate Shellfish Sanitation Conference, Laboratory Methods Committee
- 2001- present Member, Interstate Shellfish Sanitation Conference, Gene-Probe Committee, Technical Representative
- 2001- present State of Texas Department of Health *Vibrio vulnificus* Control Plan Committee
- 2003- present 1st Vice President, Propeller Club # 10, Port of Galveston
- 2005 Rotary District 5910 Roll of Fame Inductee
- 2005 Rotary – Paul Harris Fellow Award – 2nd Award

Experience definition, a particular instance of personally encountering or undergoing something: My encounter with the bear in the woods was a frightening experience. See more.Â a particular instance of personally encountering or undergoing something: My encounter with the bear in the woods was a frightening experience. the process or fact of personally observing, encountering, or undergoing something: business experience. Experience definition is - direct observation of or participation in events as a basis of knowledge. How to use experience in a sentence.Â 1a : direct observation of or participation in events as a basis of knowledge. b : the fact or state of having been affected by or gained knowledge through direct observation or participation. 2a : practical knowledge, skill, or practice derived from direct observation of or participation in events or in a particular activity. Experience definition: Experience is knowledge or skill in a particular job or activity, which you have gained | Meaning, pronunciation, translations and examples.Â Word forms: plural, 3rd person singular present tense experiences , present participle experiencing , past tense, past participle experienced. 1. uncountable noun. Experience is knowledge or skill in a particular job or activity, which you have gained because you have done that job or activity for a long time. He has also had managerial experience on every level. From Middle English experience, from Old French, from Latin experientia (â€œa trial, proof, experiment, experimental knowledge, experienceâ€), from experiens, present participle of experiri (â€œto try, put to the test, undertake, undergoâ€), from ex (â€œoutâ€) + peritus (â€œexperienced, expertâ€), past participle of *periri (â€œto go throughâ€); see expert and peril. (General American) IPA(key): /ÉªkÉ¹spÉªÉ¹.i.É™ns/. (Received Pronunciation) IPA(key): /ÉªkÉ¹spÉªÉ¹.É¹ÉªÉ™ns/. Hyphenation: exâ€špeâ€šriâ€šence.