

January 25, 2020

KEVIN R. CARMAN
BIOGRAPHICAL SKETCH

Dr. Kevin Carman is a Professor of Biology at the University of Nevada, Reno. He served as the Executive Vice President and Provost at UNR from February 1, 2013 through December 31, 2020. As EVP and Provost Carman oversaw the university's eight academic colleges and schools, the Graduate School, the Division of Extended Studies, and University Libraries. He also had responsibility for the Office of Information Technology. He served as the university's chief executive officer when the President was away.

Using revenue from UNR's rapid growth in enrollment over the past decade, Carman implemented bottom-up competitive opportunities for distributing 250 new faculty lines. In addition, 135 new graduate assistantships, as well as several administrative staff and academic-advisor positions were added.

Shortly after his arrival in 2013, Provost Carman established five-day academic "boot camps" (NevadaFIT) for incoming freshmen. NevadaFIT was recognized by the APLU in 2018 as one of five finalists for its "Degree Completion Award". UNR received the 2019 Beacon Award from the Northwest Commission for Colleges and Universities in recognition of the impact of NevadaFIT on student success.

Carman has contributed to improving academics by leading a comprehensive revision of the undergraduate core curriculum, and establishing a UTeach replication program (NevadaTeach) for middle and secondary math and science teachers. He facilitated the launch of online master's degrees in Social Work, Community Health Science, Business Analytics, Accounting, and Cybersecurity programs.

In 2014 Carman led a collaborative process to update the comprehensive Master Plan and Strategic Plan that included goals of being recognized as a Carnegie R1 University as well as a Carnegie Community Engaged University. UNR's goal of achieving R1 status was realized in 2018, and UNR's application for the Community Engaged designation was approved in 2019.

Carman was a faculty member at Louisiana State University in the Department of Biological Sciences for 24 years. He served as Interim Dean then Dean of the LSU College of Science for nine years prior to his move to UNR.

Carman's research is in the area of marine benthic ecology and ecotoxicology. He has published 65 peer-reviewed journal articles and book chapters, and his research has been supported by approximately \$9.6M from a variety of funding agencies. Carman is a Fellow of the American Association for the Advancement of Science.

Academic preparation

1989 - Ph.D., Biological Oceanography, Florida State University

1984 - M.S., Biological Oceanography, Florida State University

1982 - B.A., Biology, McPherson College, Magna Cum Laude

Professional Experience

2013-2021: Executive Vice President & Provost, University of Nevada, Reno
2013-Present: Professor, Department of Biology, University of Nevada, Reno
2005-2012: Dean, College of Science, Louisiana State University
2004-2005: Interim Dean, College of Basic Sciences, LSU
2003-2004: Associate Dean for Finance and Administration, College of Basic Sciences, LSU
2001-2012: Professor, Department of Biological Sciences, LSU
1999-2012: Adjunct Professor, Department of Ocean and Coastal Science, LSU
1996-2001: Associate Professor, Department of Biological Sciences, LSU
1991-1996: Assistant Professor, Department of Zoology and Physiology, LSU
1989-1991: Postdoctoral Researcher, Department of Zoology and Physiology, LSU
1984-1986: Environmental Specialist-II, Dept. of Environmental Regulation, Tallahassee, FL

Administrative Experience

2013-Present: Executive Vice President & Provost, University of Nevada, Reno

As the Executive Vice President and Provost, Carman oversaw the University's nine colleges and schools, the Graduate School, the Division of Extended Studies, the University of Nevada Cooperative Extension, the University of Nevada Press, and the Office of Information Technology. In his role as Executive Vice President, he served as the university's chief executive officer when the president was away. UNR has over 700 full-time faculty members and a total annual budget of approximately \$600M. Approximately 21,000 undergraduate and graduate students attend UNR. Carman served on the Nevada Statewide Medical Committee, charged with overseeing the transition to two medical schools in Nevada. He served on the "What's Next Nevada" advisory board, which was charged with identifying and promoting best practices in K-12 education in Nevada. He served on the Board of Directors for the Association of Chief Academic Officers. Carman is a Fellow of the American Association for the Advancement of Science.

Selected highlights at UNR:

- UNR recognized as a “Carnegie Engaged University” by the Carnegie Foundation for the Advancement of Teaching in 2019.
- Established academic “boot camps” ([NevadaFIT](#)) for incoming freshmen in all academic colleges. NevadaFIT was a finalist for the APLU Degree Completion Award in 2018. The program received the inaugural Beacon Award for Excellence in Student Achievement and Success from the Northwest Commission on Colleges and Universities.
- During his tenure as EVP & Provost, enrollment increased from 19,000 to ~21,000. Six-year graduation rates increased from 51% to 61%. Four-year graduation rates increased from 26% to 41%.
- UNR recognized as a “R1 Research University” by the Carnegie Foundation for the Advancement of Teaching in 2018.
- Led comprehensive revision of the Silver Core [core curriculum](#).

- Diversity of students increased steadily over the past decade (now 40% under-represented). Retention and graduation rates racial minorities, Pell-eligible students, and first-generation students increased as their enrollments have increased.
- Joined and implemented the Student Success Collaborative “Navigate” advising platform (Educational Advisory Board).
- Established UTeach-replication program ([NevadaTeach](#)) for middle and secondary math and science teachers.
- Implemented Association of College and University Educators ([ACUE](#)) course on best practices in pedagogy for all new faculty.
- Implemented a bottom-up RFP program for distributing 250 new faculty lines and 130 new GTA lines over the past seven years.
- Launched online Master of Social Work, Community Health Science, Accounting, Business Analytics, and Cybersecurity programs.
- Led an update of the comprehensive [Strategic Plan](#) and [Master Plan](#) for UNR. These plans included explicit partnerships with the city of Reno and the Regional Transportation Commission.
- Developed a university-wide plan for an Advanced Manufacturing Research initiative, which added 18 new faculty.
- Added 32 academic advisors from 2014-2020, which decreased student:advisor ratios from 1070:1 to 350:1.
- Increased base graduate-assistant stipends to competitive levels.
- Established monthly faculty socials to promote a sense of community and promote collaboration across disciplines.

LSU

2003: Associate Dean for Research and Administration

2004-12: Interim Dean (2004-2005) and Dean (2005-12), College of Science, Louisiana State University A&M

As dean at LSU Carman had oversight of six academic departments (Biological Sciences, Chemistry, Geology & Geophysics, Mathematics, Computer Science, and Physics & Astronomy), the Museum of Natural Science, and various research facilities, centers, and institutes. The College employed approximately 220 tenure-stream and 45 non-tenure-stream (instructors and research) faculty as well as 110 administrative and research staff. It included approximately 675 graduate and 1800 undergraduate majors. The faculty taught approximately 200,000 SCH per academic year. The dean was responsible for an administrative budget of \$34 million and the college generated \$30-40 million annually in contracts and grants.

Selected accomplishments:

- Established the **Science Residential College**, a living-learning environment for entering freshmen that plan to pursue a degree in one of the College’s seven academic majors.
- Established academic-orientation programs – “**boot camps**” - for entering freshmen. The boot camps are modeled after “BIOS” which was established in 2005 for biological science majors. The boot camps have been nationally recognized and replicated at over 30 universities throughout the U.S.
- Procured funding for construction of a 75,000 sq. ft. research facility for research in materials science and chemistry.

- Established a college development program (three development officers, an administrative assistant, and two GAs). Secured over \$40 million during “Forever LSU” campaign.
- Completed a college-wide strategic plan “Formula for Excellence”.
- Established joint academic program in medical physics, a partnership with the Mary Bird Perkins Cancer Center.
- Established joint Ph.D. programs in physics with Nanjing University and Beijing Institute for Physics, both in China.
- Added the Department of Mathematics and the Museum of Natural Science. Both programs joined the College at the request of their respective faculties.
- Established science and mathematics teacher-education programs at both the undergraduate and graduate levels.

Carman served as vice-chair of the Louisiana Board of Regents EPSCoR Committee, which oversees and administers all EPSCoR grant programs for the state of Louisiana. At the national level, he served on the Education Committee of the American Institute of Biological Sciences, and as LSU’s representative on the Council of Environmental Deans and Directors (affiliated with the National Council for Science and the Environment). His international activities included the Oversight Committee for the Laser Interferometer Gravitational Wave Observatory (LIGO) and service as an elected member of the International Association of Meiobenthologists Executive Committee. He served on the Board of Trustees of McPherson College, the Board of Directors at Mary Bird Perkins Cancer Center, and the Louisiana Business & Technology Center.

Carman’s research interests are in the area of marine ecology and ecotoxicology. He has secured approximately \$9.6M in funding for research and educational programs from a variety of national, state, and private sources. He has served as the advisor for nine M.S. and Ph.D. students and six postdoctoral scholars. Carman has published 65 articles in peer-reviewed journals and books. He previously served on the editorial board of *ISRN Oceanography* and as subject editor for *Aquatic Microbial Ecology*. He has received numerous citations for outstanding teaching and has been recognized three times by Who's Who Among America's Teachers.

Publications in peer-reviewed journals and books

- (65) Fleegeer, J.W., Riggio, M.R., Mendelssohn, I.A., Lin, Q., Dreis, D.R., Johnson, D.S., **Carman, K.R.**, Graham, S.A., Zengel, S., Hou, A. 2019. What promotes the recovery of salt marsh infauna after oil spills? *Estuaries and Coasts*, 42: 204-2017.
- (64) Carey, J.M., **Carman, K.R.**, K.P. Clayton, Y. Joriuchi, M.N. Hitun, B. Ortiz. 2018. Who wants to hire a more diverse faculty? A conjoint analysis of faculty and student preferences for gender and racial/ethnic diversity. *Politics, Groups, and Identity*. DOI: 10.1080/21565503.2018.1491866.
- (63) Thistle, D., Sedlacek, L., **Carman, K.R.**, Barry, J.P. 2017. Influence of habitat heterogeneity on the community structure of deep-sea harpacticoid communities from a canyon and an escarpment site on the continental rise off California. *Deep-Sea Research I*. 123: 56-61.
- (62) Fleegeer, J.W., **Carman, K.R.**, Riggio, M.R., Mendelssohn, I.A., Lin, Q.X., Hou, A., Deis,

- D.R., Zengel, S. 2015. Recovery of saltmarsh benthic microalgae and meiofauna following the *Deepwater Horizon* oil spill linked to the recovery of *Spartina alterniflora*. *Marine Ecology Progress Series*. 536: 39-54.
- (61) Bianchi, T.S., B.L. Grace, **K.R. Carman**, and I. Maulana. 2014. Amino acid cycling in the Mississippi River Plume and effects from the passage of Hurricanes Isadore and Lili. *Journal of Marine Systems* 136: 10-21.
- (60) Sedlacek, L., D. Thistle, G. Fernandez-Leborans, and **K.R. Carman**, J.P. Barry. 2013. First report of ciliate (Protozoa) epibionts on deep-sea harpacticoid copepods. *Deep-Sea Research Part II*. 92: 165-171.
- (59) Caramujo, M.-J., C.C.c.r. De Carvalho, S.J. Silva, and **K.R. Carman**. 2012. Dietary carotenoids regulate astaxanthin content of copepods and modulate their susceptibility to UV light and copper toxicity. *Marine Drugs* 10: 998-1018. doi: 10.3390/md10050998.
- (58) Mendelssohn, I.A. G.L. Anderson, D. Baltz, R. Caffey, **K.R. Carman**, J.W. Fleeger, S. Joye, Q. Lin, E. Maltby, E. Overton. 2012. Oil impacts to Coastal Wetland Systems: Implications for the Mississippi River Delta Plain Ecosystem after the Deepwater Horizon Oil Spill. *Bioscience* 62: 562-574. ISSN 1525-3244.
- (57) Fleeger, J.W. and **K.R. Carman**. 2011. Experimental and Genetic Studies of Meiofauna Assess Environmental Quality and Reveal Mechanisms of Pollution Fate and Effects. *Vie et Milieu*. 61: 1-26.
- (56) Grippo, M.A., J.W. Fleeger, N.N. Rabalais, R. Condrey, and **K.R. Carman**. 2010. Contribution of phytoplankton and benthic microalgae to inner shelf sediments of the north-central Gulf of Mexico. *Continental Shelf Research* 30: 456-466.
- (55) Pascal, P.-Y., J.W. Fleeger, F. Galvez, and **K.R. Carman**. 2010. The toxicological interaction between ocean acidity and metals in coastal meiobenthic copepods. *Marine Pollution Bulletin* 60: 2201-2208.
- (54) Fleeger, J.W., D.S. Johnson, **K.R. Carman**, P.B. Weisenhorn, A. Gabriele, D. Thistle, and J.P. Barry. 2010. *In situ* exposure to carbon dioxide-rich seawater kills deep-sea nematodes. *Deep-Sea Research* 57: 696-707.
- (53) Hedrick, D.B, A.R. Peacock, G. Tita, J.W. Fleeger, **K.R. Carman**, and D.C. White. 2009. Effects of diesel and interactions with copper and other metals in an estuarine sediment microbial community. *Environmental Toxicology and Chemistry* 28: 2289-2297.
- (52) Sedlacek, L., D. Thistle, **K.R. Carman**, J.W. Fleeger, and J.P. Barry. 2009. Effects of carbon dioxide on deep-sea harpacticoid copepods revisited. *Deep-Sea Research* 56: 1018-1025.
- (51) Grippo, M., J.W. Fleeger, R. Condrey, and **K.R. Carman**. 2009. High benthic microalgal biomass found on Ship Shoal, north-central Gulf of Mexico. *Bulletin of Marine Science* 84: 237-256.
- (50) Silva, S.J., **K.R. Carman**, J.W. Fleeger, T. Marshall, and S.J. Marlborough. 2009. Effects of Phenanthrene- and Metal-Contaminated Sediment on the Feeding Activity of the Harpacticoid Copepod, *Schizopera knabeni*. *Archives of Environmental Contamination and Toxicology* 56: 434-441.
- (49) Mahon, S. and **K.R. Carman**. 2008. The uptake, distribution and excretion of multiple metals by *Spartina alterniflora* (Loisel.) grown in metal-amended sediments. *Estuaries and Coasts* 31: 1089-1097.

- (48) Thistle, D., L. Sedlacek, **K.R. Carman**, J.W. Fleeger, and J.P. Barry. 2007. Emergence in the deep sea: evidence from harpacticoid copepods. *Deep-Sea Research* 54: 1008-1014.
- (47) Shuiwang, D., T.S. Bianchi, A.M. Shiller, K. Dria, P.G. Hatcher, and **K.R. Carman**. 2007. Temporal Variability in the Composition and Abundance of Dissolved Organic Matter in the Lower Mississippi and Pearl Rivers (USA): I. The Application of Bulk Carbon and Nitrogen Measurements. *Journal of Geophysical Research* 112: G02024, doi: 10.1029/2006JG000206 (12 pp).
- (46) Thistle, D., L. Sedlacek, **K.R. Carman**, J.W. Fleeger, P.G. Brewer, and J.P. Barry. 2007. Exposure to carbon dioxide-rich seawater is stressful for some deep-sea species: an in situ, behavioral study. *Marine Ecology Progress Series* 340: 9-16.
- (45) Fleeger, J.W., **K.R. Carman**, P.B. Weisenhorn, H. Sofranko, T. Marshall, D. Thistle, and J.P. Barry. 2006. Simulated sequestration of anthropogenic carbon dioxide at a deep-sea site: effects on nematode abundance and biovolume. *Deep-Sea Research* 53:1135-1147.
- (44) Fleeger, J.W., G. Tita, **K.R. Carman**, R.N. Millward, E.B. Moser, R.J. Portier, and R.P. Gambrell. 2006. Bioturbation by a benthic fish modifies the effects of sediment contamination on saltmarsh benthic consumers. *Journal of Experimental Marine Biology and Ecology* 330: 180-194.
- (43) Thistle, D., L. Sedlacek, **K.R. Carman**, J.W. Fleeger, P.G. Brewer, and J.P. Barry. 2006. Simulated sequestration of anthropogenic carbon dioxide at a deep-sea site: effects on harpacticoid-copepod species. *Journal of Experimental Marine Biology and Ecology* 330: 151-158.
- (42) Maddi, P., **K.R. Carman**, B. Fry, and B. Wissel. 2006. Use of primary production by harpacticoid copepods in a Louisiana salt-marsh food web. pp. 65-81, J.C. Kromkamp, J.F.C. de Brouwer, G.F. Blanchard, R.M. Forster, and V. Créach (eds), In: *Functioning of microphytobenthos in estuaries*. Royal Dutch Academy of Arts and Sciences, Amsterdam.
- (41) Finley, A.M., E.H. Weidner, **K.R. Carman**, Z.M. Xu, and J.S. Godbar. 2005. Role of the posterior vacuole in *Spraguea lophii* (Microsporidia) spore hatching. *Folia Paristologica* 52: 111-117.
- (40) Thistle, D., **K.R. Carman**, L. Sedlacek, P.G. Brewer, J.W. Fleeger, and J.P. Barry. 2005. Deep-ocean, sediment-dwelling animals are sensitive to sequestered carbon dioxide. *Marine Ecology Progress Series* 289: 1-4.
- (39) **Carman, K.R.**, D. Thistle, J.W. Fleeger, and J.P. Barry. 2004. The Influence of Introduced CO₂ on Deep-Sea Metazoan Meiofauna. *Journal of Oceanography* 60: 767-772.
- (38) Millward, R.N., **K.R. Carman**, J.W. Fleeger, R.P. Gambrell, and R.J. Portier. 2004. Mixtures of metals and hydrocarbons elicit complex responses by a benthic invertebrate community. *Journal of Experimental Marine Biology and Ecology* 310: 115-130.
- (37) Fleeger, J.W., **K.R. Carman**, and R.M. Nisbet. 2003. Indirect effects of contaminants in aquatic ecosystems. *Science of the Total Environment* 317: 207-233.
- (36) Pinckney, J.L., **K.R. Carman**, S.E. Lumsden, and S.N. Hymel. 2003. Microalgal-meiofaunal trophic relationships in muddy intertidal estuarine sediments. *Aquatic Microbial Ecology* 31: 99-108.
- (35) King-Lotufo, E.C., K.M. Brown, and **K.R. Carman**. 2002. The influence of periphyton succession, snail size and density on grazing in *Physella virgata*. *Hydrobiologia* 482: 23-29.

- (34) **Carman, K.R.** and B. Fry. 2002. $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ analysis of meiofaunal species from a coastal marsh. *Marine Ecology Progress Series* 240: 85-92.
- (33) Puckett, G.L. and **K.R. Carman**. 2002. Ciliate epibiont effects on feeding, energy reserves, and sensitivity to contaminants in an estuarine harpacticoid copepod. *Estuaries* 25: 372-381.
- (32) Millward, R.N., **K.R. Carman**, J.W. Fleeger, R.P. Gambrell, R.T. Powell, and M.M. Rouse. 2001. Linking effects of metal enrichment with metal concentration and speciation in a Louisiana salt marsh meiofaunal community. *Environmental Toxicology & Chemistry* 20: 2029-2037.
- (31) Mitra, S., P. Klerks, T.S. Bianchi, J. Means, and **K.R. Carman**. 2000. Polycyclic aromatic hydrocarbon (PAH) bioaccumulation as a function of organic matter biogeochemistry at two sites in southern Louisiana. *Estuaries* 23: 864-876.
- (30) Buffan-Dubau, E. and **K.R. Carman**. 2000. Extraction of benthic microalgal pigments for HPLC analyses. *Marine Ecology Progress Series* 204: 293-297.
- (29) Goldfinch, A.C. and **K.R. Carman**. 2000. Chironomid grazing on benthic microalgae in a Louisiana salt marsh. *Estuaries* 23: 536-547.
- (28) Buffan-Dubau, E. and **K.R. Carman**. 2000. Diel feeding behavior of meiofauna and their relationships with microalgal resources. *Limnology & Oceanography* 45: 381-395.
- (27) **Carman, K.R.**, T.S. Bianchi, and F. Kloop. 2000. The influence of grazing and nitrogen on benthic algal blooms in diesel-contaminated salt marsh sediments. *Environmental Science & Technology* 34: 107-111.
- (26) **Carman, K.R.**, J.W. Fleeger, and S.M. Pomarico. 2000. Does historical exposure to hydrocarbon contamination alter the response of benthic communities to diesel contamination? *Marine Environmental Research* 49: 255-278.
- (25) Bennett, A., T.S. Bianchi, J.C. Means, and **K.R. Carman**. 1999. The effects of PAH contamination and grazing on the abundance and composition of microphytobenthos in salt marsh sediments. *Journal of Experimental Marine Biology & Ecology* 242:1-20.
- (24) Fleeger, J.W., **K.R. Carman**, S. Webb, N. Hilburn, and M. Pace. 1999. Consumption of microalgae by the grass shrimp, *Palaemonetes pugio* Holthius. *Journal of Crustacean Biology* 19: 324-336.
- (23) Hinkle-Conn, C., J.W. Fleeger, **K.R. Carman**, and J.C. Gregg. 1998. The effect of sediment-amended polycyclic aromatic hydrocarbons on feeding behavior in juvenile spot (*Leiostomus xanthurus*: Pisces). *Journal of Experimental Marine Biology & Ecology* 227: 113-132.
- (22) Petersen, S., G. Arlt, A. Faubel, and **K.R. Carman**. 1998. On the nutritive significance of dissolved free amino acid uptake for the cosmopolitan oligochaete *Nais elinguis*, Müller (Naididae). *Estuarine, Coastal & Shelf Science* 46:85-91.
- (21) **Carman, K.R.**, J.W. Fleeger, and S.M. Pomarico. 1997. Response of a benthic food web to hydrocarbon contamination. *Limnology & Oceanography* 42: 561-571.
- (20) **Carman, K.R.** and F.C. Dobbs. 1997. Epibiotic microorganisms on copepods and other aquatic crustaceans. *Microscopy Research & Technique* 37: 116-135.
- (19) Gregg, J.C., J.W. Fleeger, and **K.R. Carman**. 1997. Effects of suspended, diesel-contaminated sediment on feeding rate in the darter goby *Gobionellus boleosoma* (Teleostei: Gobiidae). *Marine Pollution Bulletin* 34: 269-275.
- (18) **Carman, K.R.**, J.C. Means, and S.M. Pomarico. 1996. Response of sedimentary bacteria in a Louisiana salt marsh to contamination by diesel fuel. *Aquatic Microbial Ecology* 10:

- 231-241.
- (17) **Carman, K.R.** and M.A. Todaro. 1996. Influence of polycyclic aromatic hydrocarbons on the meiobenthic-copepod community of a Louisiana salt marsh. *Journal of Experimental Marine Biology & Ecology* 198: 37-54.
 - (16) Pace, M.C. and **K.R. Carman**. 1996. Interspecific differences among meiobenthic copepods in the use of microalgal food resources. *Marine Ecology Progress Series* 143: 77-86.
 - (15) Radziejewska, T., J.W. Fleeger, N.N. Rabalais, and **K.R. Carman**. 1996. Meiofauna and sediment chloroplastic pigments on the continental shelf off Louisiana, USA. *Continental Shelf Research* 16: 1699-1723.
 - (14) **Carman, K.R.**, J.W. Fleeger, J.C. Means, S.M. Pomarico, and D.J. McMillin. 1995. Experimental investigation of the effects of polynuclear aromatic hydrocarbons on an estuarine sediment food web. *Marine Environmental Research* 40: 289-318.
 - (13) Brown, K.M., **K.R. Carman**, V. Inchausty. 1994. Density-dependent influences on feeding and metabolism in a freshwater snail. *Oecologia* 99: 158-165.
 - (12) **Carman, K.R.** 1994. Stimulation of marine free-living and epibiotic bacterial activity by copepod excretions. *FEMS Microbial Ecology* 14: 255-262.
 - (11) **Carman, K.R.** and J.B. Guckert. 1994. Radiotracer determination of ingestion and assimilation of periphytic algae, bacteria, and adsorbed amino acids by snails. *Journal of the North American Benthological Society* 13: 80-88.
 - (10) **Carman, K.R.** 1993. Microautoradiographic detection of microbial activity. In: *Handbook of methods in aquatic microbial ecology*, pp. 397-404, P. F. Kemp, B.F. Sherr, E.B. Sherr, and J.J. Cole (eds.). Lewis Publishers, Boca Raton, FL.
 - (9) **Carman, K.R.**, D. Thistle, S.C. Ertman, and M. Foy. 1991. Nile red as a probe for lipid-storage products in benthic copepods. *Marine Ecology Progress Series* 74: 307-311.
 - (8) **Carman, K.R.** 1990. Mechanisms of uptake of radioactive labels by meiobenthic copepods during grazing experiments. *Marine Ecology Progress Series* 68: 71-83.
 - (7) **Carman, K.R.** 1990. Radioactive labeling of a natural assemblage of marine sedimentary bacteria and microalgae for trophic studies: an autoradiographic study. *Microbial Ecology* 19: 279-290.
 - (6) **Carman, K.R.**, F.C. Dobbs, and J.B. Guckert. 1989. Comparison of three techniques for administering radiolabeled substrates to sediments for trophic studies: Uptake by harpacticoid copepods. *Marine Biology* 102: 119-126.
 - (5) Dobbs, F.C., J.B. Guckert, and **K.R. Carman**. 1989. Comparison of three techniques for administering radiolabeled substrates to sediments for trophic studies: Incorporation by microbes. *Microbial Ecology* 17: 237-250.
 - (4) **Carman, K.R.**, F.C. Dobbs, and J.B. Guckert. 1988. Consequences of thymidine catabolism for estimates of bacterial production: An example from a coastal marine sediment. *Limnology & Oceanography* 33: 1595-1606.
 - (3) Schropp, S., F.G. Lewis, W. Eubanks, **K.R. Carman**, and D.C. White. 1988. Biochemical characterization of estuarine benthic microbial communities for use in accessing pollution impacts. pp 311-325. *Chemical and Biological Characterization of Sludges, Sediments, Dredge Spoils, and Drilling Muds*. ASTM STP 976. J. J. Lichtenberg, J. A. Winter, C. I. Webster, and L. Fradkin (eds.).
 - (2) **Carman, K.R.**, K.M. Sherman, and D. Thistle. 1987. Evidence that sediment type influences the horizontal and vertical distribution of nematodes at a deep-sea site. *Deep-Sea*

Research 34: 45-53.

- (1) **Carman, K.R.** and D. Thistle. 1985. Microbial food partitioning by three species of benthic copepods. *Marine Biology* 88: 143-148.

Teaching

Teaching at LSU

Biology for non-Science Majors (BIOL 1001)

Careers in Life Sciences (BIOL 2009)

Biology for Science Majors (BIOL 1201)

Microbial-invertebrate interactions in aquatic environments (BIOL 7125)

Principles of Ecology (BIOL 4153)

Various graduate seminars in Ecology

Teaching at other institutions

1985: Assistant Scientist, Sea Education Association.

1984: Adjunct Professor, Tallahassee Community College.

1981-82: Teaching Assistant, McPherson College.

Awards:

1996, 97, 98, 99, 00: Alpha Lambda Delta Freshman Honor Society “Recognition of Superior Instruction to Freshman Students”

1997, 2003, 2006: Who's Who Among America's Teachers

Financial support (Total ~\$9.6M)

BP Gulf Research Initiative

2011-2012 “*Deepwater Horizon* Oil Spill Impacts and Recovery in Louisiana Coastal Wetlands: Long-Term Effects on Plant-Soil-Benthic Systems”, Q. Lin (PI), I.A. Mendelsohn, J.W. Fleeger, **K.R. Carman.**, \$249,822.

Gulf of Mexico Alliance

2012-2014 “Accelerating recovery after the Deepwater Horizon Oil Spill: Response of the plant-microbial-benthic ecosystem to mitigation strategies promoting wetland remediation and resilience”, I.A. Mendelsohn (PI), L. Qianxin, **K.R. Carman**, A. Hou., \$1,669,037.

National Institutes of Health

2012-2017 “Bridges to the Baccalaureate Program from Baton Rouge Community College to Louisiana State University”, **K.R. Carman** (PI), I.M. Warner, S.-S. Peng, Z.S. Wilson, J. Ales, L. Younger, D. Taylor, \$1,765,497.

Howard Hughes Medical Institute

2006-2011 “Undergraduate Science Education Program” **K.R. Carman, Director**, \$1,600,000

Department of Energy

2005-09 “The Influence of Deep-Sea-Bed CO₂ Sequestration on Small Metazoan (Meiofaunal) Viability and Community Structure”, **K.R. Carman, PI**, J. Fleeger, D. Thistle, P. Spear,

Co-PIs. \$999,000.

2002-05 "The influence of deep-sea-bed CO₂ sequestration on small metazoan (meiofaunal) community structure and function", **K.R. Carman, PI**, J. Fleeger, D. Thistle, Co-PIs, \$712,689.

National Science Foundation

1999-02 "Relationships between benthic microalgae, grazers, and nutrients in a coastal salt marsh". **K.R. Carman, PI**. \$330,000.

1998-00, "Predicting Population Level Effects of Toxicants". National Center for Ecological Analysis and Synthesis. R. Nisbet, PI. Travel support to attend workshops on model development.

1991-92, "Understanding interactions between biological communities and depositional processes in coastal marsh environments". D. Reed, PI, J. Fleeger, P. Yund, and **K.R. Carman, Co-PI's.**, \$79,520.

Office of Naval Research

1998-01, "Interactive effects of metals and PAH's on benthic food webs." **K.R. Carman, PI**; J. Fleeger, R. Gambrell, R. Portier, Co-PIs. \$455,919.

1996-98, "Direct and indirect effects of diesel fuel on microphytobenthos and meiofauna in saltmarsh sediments". **K.R. Carman, PI**; J. Fleeger and T. Bianchi, Co-PIs. \$311,998.

1995-98, "Mechanisms by which benthic food webs are affected by diesel fuel". **K.R. Carman, PI**; \$94,893.

1993-96, "An experimental investigation of the influence of diesel fuel on the food webs of two sedimentary communities". **K.R. Carman, PI**; J. Fleeger, Co-PI. \$311,995.

U.S. Environmental Protection Agency

1998-00 "Effects of epibionts on harpacticoid copepods in a Louisiana saltmarsh". **K.R. Carman, PI**; G. Puckett Co-PI. \$52,722.

Sea Grant

1997-1999 "Ciliary structures on the gills of bivalve mollusks determine their ability to capture bacterial-sized particles: Implications for distribution, diet, and accumulation of pathogens. H. Silverman, PI; T. Dietz, J. Lynn, **K. Carman, CoPI's.** \$144,790.

U.S. Department of the Interior

2002-05 "Do joint exposures of heavy metals and poly-nuclear aromatic hydrocarbons elicit non-additive responses in benthic invertebrates?" J. Fleeger, PI, **K.R. Carman, Co-PI.** \$220,000.

1991-93, "Experimental investigation of the effects of aromatic hydrocarbons on a sediment food web". **K.R. Carman, PI**; J. Fleeger & J. Means, Co-PI's. \$183,945.

National Oceanographic and Atmospheric Association

1994, "Determination of the comparative influence of biogenic sediment structure upon benthic populations at the shallow to deep ecology transition on the continental slope. R. Carney, PI; **K.R. Carman** and J. Fleeger, **Co-PI's.** Submersible dive time.

Louisiana Board of Regents

*2002-07 "Development of interdisciplinary competency for application of biotechnology to environmental toxicology. H. Silverman, PI, S.C. Hand, L.G. Marzilli, **K.R. Carman**, B. Dellinger, J. Fleeger, Co-PIs. Governor's Biotechnology Program, \$497,000.
1993-95¹, "Uptake and metabolism of dissolved organic matter by aquatic invertebrates". **K.R. Carman, PI**. Industrial Ties Research Subprogram, \$57,000.

Procter & Gamble

1993-94, "Uptake and metabolism of dissolved organic matter by aquatic invertebrates". **K.R. Carman, PI**. \$19,724.
1991-92, "Development of a radiotracer method for determining periphyton grazing by aquatic invertebrates". **K.R. Carman, PI**. \$12,100.

Editorial boards

Aquatic Microbial Ecology, Review Editor, 1995-2000
Aquatic Microbial Ecology, Subject Editor, 2000-2004
ISRN Oceanography, 2012-2014

Honorifics

Inducted into Louisiana State University College of Science Hall of Distinction, 2019
Invited "Opponent" for dissertation defense, Chalmers University, Sweden, 2015
Fellow, American Association for the Advancement of Science, 2011
Invited "Opponent" for dissertation defense, Dept. of Marine Biology, University of Gothenburg, Sweden, 2007
Invited contributor to workshop entitled "Advances in Biological Research for CO₂ Ocean Sequestration" hosted by The Research Institute of Innovative Technology for the Earth, Shirahama, Japan (1 of 5 invited participants), 2003
Invited contributor to Royal Dutch Academy colloquium on microphytobenthos, Amsterdam, The Netherlands, 2003
Invited "Opponent" for dissertation defense, Dept. of Zoology, University of Stockholm, Sweden, 2000
Louisiana State University College of Basic Sciences Faculty Research Award, 1996
NASA Planetary Biology Internship, Marine Biological Laboratory, Woods Hole, MA, 1988
Marshall-Vickland Scholarship, The Florida State University Foundation, 1983, 1986
Who's Who in American Colleges and Universities, 1982
Student Body President, McPherson College, 1980-81

Scientific Society Memberships

American Association for the Advancement of Science

Local, State, and National Committees and Boards

At UNR
Association of Chief Academic Officers Advisory Board
Nevada Statewide Committee on Medical Education
Nevada System of Higher Education Academic Affairs Council
"What's Next Nevada" Advisory Board (K-12 Education)

City of Reno Climate and Sustainability, Chair

At LSU

American Institute of Biological Sciences Education Committee (2012-15)

Oversight Committee, Laser Interferometer Gravitational Wave Observatory (LIGO) (2010-2012)

Louisiana Board of Regents EPSCoR committee (2010-12; Vice-Chair)

International Association of Meiobenthologists Executive Committee (2003-2010)

Louisiana Business & Technology Center (2003-12)

McPherson College of Board of Trustees (2008-12)

Mary Bird Perkins Cancer Center Board of Directors (2008-12)

Council of Environmental Deans and Directors (2003-2009)

Graduate students

Sarafaye Mahone (Ph.D.) 2008 “*Effects of contamination, sediment source, and salinity on the uptake, distribution, and excretion of metals by Spartina alterniflora*”

Soraya Silva (Ph.D.) 2006 “*Effects of diesel-fuel and copper contaminants on benthic microalgae*”

Andrea Hamilton (MNS) 2005 (Non-thesis)

Padma Maddi (M.S.), 2003 “*Use of primary production by meiofauna in a Louisiana mudflat foodweb*”

Gwyn Puckett (M.S.) 2000 “*Physiological effects of ciliate epibionts on a harpacticoid copepod in a Louisiana salt marsh*”

Elizabeth King (M.S.), 1999 “*The influence of successional stage of periphyton and snail density on assimilation efficiency and grazing in Physella virgata*”

April Goldfinch (M.S.), 1999 “*Chironomid grazing on benthic microalgae in a Louisiana salt marsh*”

Brenda Bachman (M.S.) 1997 “*The effects of produced water on the trophic relationship of microalgae and meiofauna*”

Margaret Pace (M.S.) 1995 “*Interspecific feeding differences among meiobenthic harpacticoid copepods from a Louisiana salt marsh*”

Awards received by advisees

Padma Maddi, 2003: Sigma Xi, Grant in Aid

Sarahfaye Mahon, 2002: J.B. Johnston award.

Soraya Silva, 2002: Sigma Xi, Grant in Aid

Sarahfaye Mahon, 2001: Sigma Xi, Grant in Aid

Gwyn Puckett, 1998: U.S. EPA STAR Graduate Fellowship

Margaret Pace, 1995: "Best student poster", Gulf Estuarine Research Society

Margaret Pace, 1995: "Warren J. Mermilliod Scholarship", Department of Oceanography and Coastal Studies, LSU.

Postdoctoral collaborators

Pierre-Yves Pascal (2008- 2010)

Maria-Jose Caramujo (2003)

Guglielmo Tita (2001-2002)
Rod Millward (1999-2001)
Evelyne Buffan-Dubau (1997-1999)
Steven Pomarico (1991-1997)