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PROFESSIONAL PREPARATION

Swiss Federal Institute of Technology (ETH), Zurich, Switzerland Natural Sciences Dipl. Natw. 1965
Swiss Federal Institute of Technology (ETH), Zurich, Switzerland Natural Sciences Dr. sc. nat. 1969

APPOINTMENTS

1990-present University of Wisconsin - Milwaukee, Milwaukee, WI, USA. Department of Biological Sciences, Shaw Distinguished Professor of Biological Sciences
1986-1990 Boston University, Boston, MA, USA. Department of Biology; Professor of Biology
Director of the Boston University Marine Program at the Marine Biological Laboratory, Woods Hole, MA, USA
1984-1985 University of Southern California, Los Angeles, CA, USA. Department of Biological Sciences; Research Professor
1980-1984 Australian Institute of Marine Science, Townsville, Queensland, Australia. Principal Research Scientist
1977-1979 University of Ottawa, Ottawa, Ont., Canada. Department of Biology; Associate Professor in Ecology
1975-1977 Yale University, New Haven, CT, USA. Department of Biology; Assistant Professor in Biology
1971-1975 The Johns Hopkins University, Baltimore, MD, USA. Department of Earth and Planetary Sciences; Doherty Foundation Assistant Professor in Biological Oceanography
1969-1971 Memorial University of Newfoundland, St. John's, Nfld., Canada. Marine Sciences Research Laboratory (MSRL); Research Associate in Ecology
1967-1969 Proceq S.A., Zurich, and Mecana S.A., Schmerikon, Switzerland. Consultant in Applied Ecology to both companies

PUBLICATIONS (five recent related to proposal)

Vandromme, P., F. Schmitt, S. Souissi, E.J. Buskey, J. R. Strickler, C.-H. Wu and J.S. Hwang. 2010. Symbolic analysis of plankton swimming trajectories: case study of *Strombilidium* sp. (Protista) helical walking under various food conditions. *Zoological Studies* 49: 289-303.
Wu, C.-H., H.U. Dahms, E.J. Buskey, J.R. Strickler, and J.S. Hwang. 2010. Behavioral interactions of *Temora turbinata* with its potential ciliate prey. *Zoological Studies*. 49: 157-168.
Uttieri, M., L. Sabia, D. Cianelli, J.R. Strickler and E. Zambianchi. 2010. Lagrangian modeling of swimming behavior and encounter success in co-occurring copepods: *Clausocalanus furcatus* vs. *Oithona plumifera*. *J. Mar. Systems* 81: 112-121.
Cianelli, D., M. Uttieri, J. R. Strickler and E. Zambianchi. 2009. Zooplankton encounters in patchy particle distributions. *Ecological Modelling* 220: 596-604.
Strickler, J.R., G. Balazi. 2007. Planktonic copepods reacting selectively to hydrodynamic disturbances. *Phil. Trans. Royal Soc. B- Biol. Sci.* 362: 1947-1958.

PUBLICATIONS (five most cited out of >120)

Gerritsen, J. and J.R. Strickler. 1977. Encounter probabilities and community structure in zooplankton: A mathematical model. *J. Fish. Res. Bd. Canada* 34, 73-82.

- Koehl, M.A.R. and J.R. Strickler. 1981. Copepod feeding currents: Food capture at low Reynolds number. *Limnol. Oceanogr.* 26, 1062-1073.
- Drenner, R.W., J.R. Strickler and W.J. O'Brien. 1978. Capture probability: The role of zooplankton escape in the selective feeding of planktivorous fish. *J. Fish. Res. Bd. Canada* 35, 1370-1373.
- Lovern, S.B., J.R. Strickler and R. Klaper. 2007. Behavioral and Physiological Changes in *Daphnia magna* when Exposed to Nanoparticle Suspensions (Titanium Dioxide, Nano-C60, and C60HxC70Hx). *Environ. Sci. & Technol.* 41: 4465-4470
- Strickler, J.R. 1982. Calanoid copepods, feeding currents, and the role of gravity. *Science* 218, 158-160.

SYNERGISTIC ACTIVITIES

- 204-430 Animal Behavior & Ethology; 204-380 Honors Seminar; 204-100 Zoology for non-Majors
- Over 250 public and departmental lectures worldwide
- Well visited web sites <http://www.planktonsafari.net/> and video down-load site for teachers and students <http://pantherfile.uwm.edu/jrs/public>
- Cooperation with BBC and other nature programs, whole sections recorded in Strickler's laboratory (e.g., Blue Planet, Invisible Worlds)
- Design and construction of optical equipment for zooplankton observations (e.g., for G.-A. Paffenhofer, J. Yen, E. Buskey, P. Lenz)

COLLABORATORS WITHIN THE PAST 48 MONTHS:

Ahmed T, MIT; Bradley CJ, U Hawaii; Buskey EJ, UTex; Cianelli, U Naples Italy; Consi TR, WATER Inst; Dahms HU, NTOU; DeWall J, Wisc Med C; Feinberg BA, UWM; Giebel N, Wisc Med C; Giuffre C, UWM; Grill S, U Salzburg; Grosenbaugh MA, Whoi; Hartline D, U Hawaii; Hinow P, UWM; Hwang J-S, NTOU; Janssen J, WATER Inst; Jersabek CD, Phil Acad; Jiang H, WHOI; Katz J, JHU; Klaper R, WATER Inst; Lenz PH, U Hawaii; Lopes Rubens, USP; Lovern SB, Concordia; Luger MS, Phil Acad; Mazzocchi MG, Sta Zool Naples Italy; Moore PA, BGSU; Nihongi A, WATER Inst; Penalva-Arana PC, Ind U; Sabia L, U Naples Italy; Stocker R, MIT; Uttieri M, U Naples Italy; Wu CH, NTOU; Yen J, GA Tech; Zambianchi E, U Naples Italy

GRADUATE STUDENTS AND POST-DOCTORAL SCHOLARS

Abib, Abdulkarim, AT&T, New Jersey; Barrientos Chacon, Yolanda., Universitat Caracas; Brewer, Matt C., Washington DC; Costello, Jack, Providence College; Coughlin, David J., Widener University; Fields, David, Bigelow; Friedman, Marc M., Olympus Inc, Washington; Gerritsen, Jeroen., TetraTech, Washington; Hwang, Jiang-Shiou, National Taiwan Ocean University; Liu, Jerry C., JPL, Pasadena; Lovern, Sarah, Concordia; Penalva-Arana Carolina, Indiana U; Nihongi, Ai, University of Wisconsin – Milwaukee; Riessen, Howard P., Buffalo State College; Trager, Geoffrey C., Naples Aquarium, Florida; Twombly, Saran., University of Rhode Island; Wong, C. Kim, Chinese University, Hong Kong; Zaret, Robert E., Cubic Circle Software, Boston

Total number of graduate students advised and postdoctoral scholars sponsored: 18

Graduate Advisor: O. Jaag (deceased)