

**Citation and Response of the  
2012 O. Max Gardner Award Recipient**

**DR. FRED GOULD**

Dr. Fred Gould, William Neal Reynolds Distinguished Professor of Entomology at North Carolina State University, is recognized for his achievements in research, teaching, mentoring, curriculum development and public policy initiatives that have contributed to the welfare of humans across the globe. With more than three decades of distinguished service to the University including countless contributions to locally and internationally relevant academia, Dr. Gould has left an indelible mark on North Carolina and the world through his interdisciplinary approach to achieving sustainable food security and combating increased threats of insect-born epidemics with generic ingenuity.

Born in New York, Dr. Gould earned his bachelor's degree in biology from Queens College in New York City and his Ph.D. in ecology and evolutionary biology from the State University of New York at Stony Brook. He came to North Carolina State University as a research associate in 1978 and his life saving work has been recognized through the years. In 2007, Dr. Gould won the George Bugliarello Prize from Sigma Xi, the global society on science and engineering, for his article on genetic manipulation of pests for control of human disease vectors. In 2004, he received the Alexander von Humboldt Award, presented annually to the person judged to have made the most significant contribution to American agriculture during the previous five years. In 2011, Dr. Gould was awarded NC State's Holladay Medal, the highest award presented for faculty achievement. Again in 2011, he was elected to the National Academy of Sciences, one of the world's most important scientific bodies.

Dr. Gould is world-renowned and respected for revolutionizing the science and policy surrounding transgenic, pest-resistant crops, as well as for his theoretical and empirical research on genetic pest management strategies, particularly related to disease-carrying mosquitoes. In both fields, Dr. Gould's leadership has brought scientific rigor and both philosophical and economical candor to national debates shaping the United States' policy on transgenic biotechnology products and U.S. Environmental Protection Agency policies on insect resistance management for genetically modified, pesticidal crops. This entomologist genetically engineers

## APPENDIX A

insects to prevent the transmission of diseases such as malaria and dengue fever and combat the destruction of crops by invasive pests.

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Dr. Gould thanked the members of the Board of Governors and the Gardner family for their support in making this award possible. Next, Dr. Gould credited much of his success, in part, to working with great professors and department heads in the College of Agriculture and Life Sciences at North Carolina State University. In conducting his research, Dr. Gould noted that his colleagues and he may have differing opinions in their field of insecticide toxicology and insect ecology, but they are still able to work together to make important scientific advances. Next, Dr. Gould thanked his colleagues from the Department of Entomology – Dr. Hodgson, Dr. Kennedy, Dr. Harper, Dr. Schal, Dr. Bradley and Dr. Van Duyn. He recognized Dr. Wynne, Dean & Executive Director of Agriculture Programs, and thanked him for his leadership. Without Dean Wynne’s leadership, the research in the field of transgenic plants and insects would not be possible. Lastly, he thanked Chancellor Woodson and Provost Arden for their leadership. Dr. Gould remarked that all these folks have been incredibly important to him and to his success.