

2013 Mathematics Awareness Month

<http://www.mathaware.org/index.html>

Mathematics and Sustainability

Natural Resource Modeling and Sustainability

Catherine A. Roberts, Editor

[editor@resourcemodeling.org](mailto:editor@resourcemodeling.org)

It is my pleasure to share with you the content from a special issue of the journal *Natural Resource Modeling* (<http://wileyonlinelibrary.com/journal/nrm>) that initially appeared in January 2012. The Resource Modeling Association (RMA <http://www.resourcemodeling.org>) began publishing this interdisciplinary journal a quarter of a century ago. The RMA is an international association of scientists working at the intersection of mathematical modeling, environmental science, and natural resource management. This special issue celebrated our milestone by asking for perspectives of “then and now” on key areas of interest to our journal – all of which have direct implications for sustainability. These articles describe how we utilize the tools of mathematical modeling to help us gain insight into the natural world. Indeed, this work illuminates our understanding of the relationship between human activity and the future of our planet.

The journal thanks our publisher, Wiley-Blackwell, for offering you access to this content free of charge during 2013. To access any of the following articles from *25 years of Natural Resource Modeling: Perspectives of Then and Now* go to

<http://bit.ly/THqcMg>

*Introduction to Special Issue*

Catherine A Roberts

*Mathematical Modeling of Viral Zoonoses in Wildlife*

L.J.S.Allen, V. L. Brown, C. B. Jonsson, S. L. Klein, S. M. Laverly, K. Magwedere, J.C. Owen, P. Van Den Dreissche

*Nonspatial and Spatial Models in Bioeconomics*

Jon M. Conrad, Martin D. Smith

*A Biomass Flow Approach to Population Models and Food Webs*

Wayne M. Getz

*The Evolution of Quantitative Marine Fisheries Management 1985-2010*

Ray Hilborn

*A Brief and Biased Look at Spatial Structure in Ecological Models: A Route to Individual-Based Models*

Roland H. Lamberson

*Economics and the Modeling of Water Resources and Policies*

James F. Booker, Richard E. Howitt, Ari M. Michelsen, Robert A. Long

*New Horizons for Managing the Environment: A Review of Coupled Social-Ecological Systems Modeling*

M. Schluter, R.R.J. Mcalister, R. Arlinghaus, N. Bunnefeld, K. Eisenack, F. Holker, E.J. Milner-Gulland, B. Muller, E. Nicholson, M. Quaas, M. Stoven

Link for Resource Modeling Association: <http://www.resourcemodeling.org>

Link for Natural Resource Modeling: <http://wileyonlinelibrary.com/journal/nrm>.

Link for free access to special issue: <http://bit.ly/THqcMg>

To contact Catherine A. Roberts: [editor@resourcemodeling.org](mailto:editor@resourcemodeling.org)