



## Science Art-Nature

presents

*Bringing Symposia to Life*

an independent  
virtual Science Art exhibition  
linked to symposia presented at the

**2011 Annual Meeting of the  
American Association for the Advancement of Science  
(AAAS)**

in Washington, DC beginning February 17, 2011

*The exhibit is partially supported by the  
Center for Conservation Biology, Stanford University (CCB)  
and generous donations from  
Pamela Meadowcroft and Jim Holland  
Patti Rambesek and Rik Laird  
and an anonymous friend*

**This virtual exhibit will serve as an example of how Science Art can  
expand the interest in and understanding of science discussed at science  
meeting and conferences.**

**AAAS Symposium Category: EMERGING SCIENCE AND TECHNOLOGY  
Symposium Topic: 47. Matter Wave Magic and Technology**



Julian Voss-Andreae

[www.JulianVossAndreae.com](http://www.JulianVossAndreae.com)

### **Quantum Man**

stainless steel 2009 126" x 55" x 25"

*Quantum Man* is the image of a walking human as a quantum object. Made up of thin, vertically oriented steel sheets representing quantum mechanical matter waves, the 11' (3.20 m) tall sculpture is a metaphor for the counter-intuitive world of quantum physics. The sculpture seems to consist of solid steel when seen from the front, but dissolves into almost nothing when seen from the side.

### **Science Art-Nature Mission**

to raise the prominence of Science Art and the benefits of combining the accuracy of science with the evocative power of art ... *and* ...  
to advocate the use of Science Art to inform viewers about nature and encourage the sustainable use of resources

*Science Art-Nature is a 501(c)(3) nonprofit public benefit corporation*

To become a supporter of Science Art, as a donor, science advisor, future art contributor, or exhibit reviewer, please go to [www.scienceart-nature.org](http://www.scienceart-nature.org) for information on donating, or being an involved artist or scientist, or accessing contributing artists, or commenting on an exhibit.

**Science Art-Nature**  
P.O. Box 18754  
Palo Alto, CA 94309-8754  
[www.scienceart-nature.org](http://www.scienceart-nature.org)

Visit the exhibit at:  
[stanford.edu/group/stanfordbirds/SAN/Exhibit/AAAS-DC.html](http://stanford.edu/group/stanfordbirds/SAN/Exhibit/AAAS-DC.html)

**AAAS Symposium Category: LAND AND OCEANS  
Symposium Topic: 101. Global and Local Responses to the  
Nitrogen Challenge**



Carel P. Brest van Kempen

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### **A Kerangas Forest Floor**

acrylic on illustration board 2010 30" x 20"

Some of the costs and benefits of reactive nitrogen in the environment can be seen clearly in nitrogen-deficient habitats like the Bornean dwarf forests known as "kerangas." Kerangas grow in soils that are acidic, sandy and podzolized. Essential elements enter the soil from decaying leaf litter, but most of these elements--magnesium, carbon, calcium and nitrogen, in particular--leach away very quickly, and are only available at meaningful concentrations in the top few inches. Phosphorus seems to leach away more slowly. Continual deposition of leaf litter is critical to the system, and disease, fire and logging or clearing for agriculture will convert kerangas to a barren habitat known as padang, dominated by grasses and sedges...

### **Science Art-Nature Board and Officers**

Tony Angell, naturalist, artist, and author  
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