

# Algae Microfarm News

Emerging Microfarms

April 2015

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- \* Smart Microfarm near Olympia Washington.
- \* Home, Community and Small Algae Microfarms.
- \* Algae Evolution from Large Farms to Micro Farms.
- \* Algae Products for Global Markets.
- \* Myanmar Spirulina Production and Products.



Recent presentation at the National Algae Association Workshop April 23, 2015 in Richmond California:  
*"Opportunities in Scalable Algae Microfarms - emerging production, supply chains, products and marketing."*

Aloha Robert,

## Vertical farming: A hot new area for investors?

This recent CNBC article claimed "One of the most promising fields in agriculture these days entails growing crops indoors in layers, stacked in racks, in existing underutilized warehouses or multi-story buildings. It's called vertical farming. And an increasing number of sophisticated early-stage investors (venture and growth equity firms on one hand, and strategic players such as food companies looking to get in on the trend on the other hand) believe these New Age food factories could transform agribusiness."



Algae microfarms may become an emerging component of the new vertical and urban farming businesses. Growing spirulina for high value food products and supplements, or nannochloropsis for omega-3 rich nutraceuticals, is already underway in small microfarms in many places around the world.

## SPIRULINA ALGAE MICROFARMS



**Spirulina Viva Mexico**

In January, Robert Henrikson visited San Miguel de Allende, Mexico, and just outside of town, the first spirulina algae microfarm in Mexico - Here Katie and Paco and sons Kai and Teo live by their greenhouse farm, producing fresh, frozen and dried spirulina and delicious spirulina snacks. They sell direct to local customers and retail shops in San Miguel and ship product all over Mexico. [www.spirulinaviva.com](http://www.spirulinaviva.com).





**Scalable Algae Microfarms**

Robert Henrikson writes this 6 part series in Algae Industry Magazine.com.

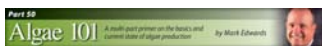
Parallel to large algae production systems by well-funded algae ventures, is the emerging interest in smaller, scalable algae farms and business models. Evolving from projects in developing world villages, algaepreneurs have been growing spirulina algae in small outdoor greenhouses and photobioreactors. Automated smart technology combined with modular growing systems may soon make it feasible to deploy algae microfarms anywhere in the world.



**Why Spirulina?**

**6 major health benefits from just 3 grams a day**  
(beyond super nutrition)

1. stimulates immune system
2. improves beneficial flora
3. enhances healing response
4. promotes anti-aging
5. detoxifies pollutants
6. protects with antioxidants



**ALGAE 101**

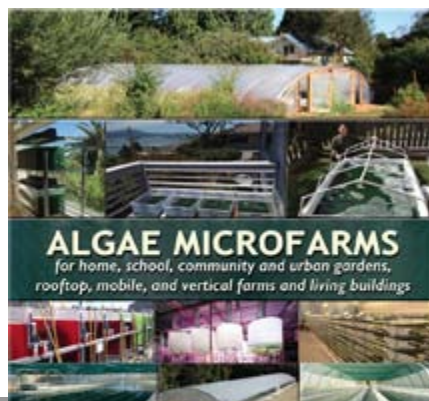
For several years, Mark Edwards has authored the popular Algae 101 blog for Algae Industry Magazine on the basics, the breakthroughs and the current state of global algae production and foods today.



In Demember, visited Bari, Puglia region in southern Italy, teaching a three day class on spirulina in a "Green Business - Alimenta L'Impresa" programme. At an agricultural technology institute Laboratori dal Basso, sponsored by Agenzia Regionale per la Tecnologia e L'innovazione, with streaming video and simultaneous translation, we attracted a large online audience.



The association Apulia Kundi won a grant in 2012 sponsored by the region of Puglia and set up a spirulina microfarm at a Bari University campus greenhouse. The team members of Apulia Kundi have been growing, harvesting and transforming spirulina into local foods like the green tagliatella below. This is the first spirulina farm in southern Italy, and the next step - set up a larger commercial spirulina farm.



**ALGAE MICROFARMS**

for home, school, community and urban gardens, rooftop, mobile, vertical farms and living buildings

Over the past 30 years, large farms have grown algae for food, feed and fuels for thousands of products. Now An era of microfarms is emerging. The author founded one of the world's first and largest algae farms



35 years ago. The time has come to introduce algae microfarms and the algaepreneurs who are building them and selling and distributing healthy foods in their local communities.

**Algae Videos at SmartMicrofarms.com**

- \* Spirulina Viva Mexico.
- \* Spirulina in Myanmar.
- \* Algae Microfarms Book.
- \* Spirulina Algae Microfarm Olympia Washington.
- \* Algae Growing Systems for Home and Backyard.
- \* Future of Algae: The Algae Competition.
- \* Integrated Spirulina Microfarm in France.
- \* Commercial Algae Farm in Thailand.

Available at Amazon.com

148 pages \* full color \* 8"x10" ISBN 148396826X \* \$29.95

**Algae Microfarms Chapters:**

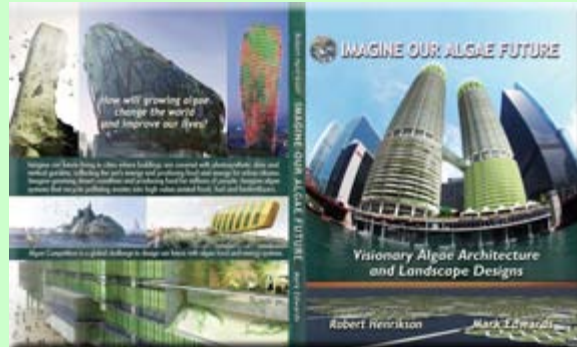
1. Why algae microfarms are emerging
2. Small farms in developing world
3. Algaepreneurs, microfarms in France
4. Growing at home and in community
5. Microfarms and bioreactors
6. Future visions of living algae systems
7. Production, products and potential
8. Imagine our algae future
9. Grow your own spirulina
10. Smart algae microfarms slideshow
11. Personal journey
12. References and author biographies



*Algae Microfarms Book 1:49 minutes*

Best Green Wishes from Robert Henrikson

**Algae Resource Books**



**IMAGINE OUR ALGAE FUTURE**

*Visionary Algae Architecture and Landscape Designs*

*International Algae Competition by Robert Henrikson and Mark Edwards*

**Available at Amazon.com**

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