

Algae Microfarm News

Algae Microfarms- the future of farming? September 2014

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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.



Scalable Algae Microfarms

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

SMART ALGAE MICROFARMS



Smart Microfarm one minute video

We've had a successful growing season at our Olympia spirulina testbed continuously harvesting from May throughout the summer. Our web-based remote monitoring system allowed us to guide our local operators while traveling for extensive periods over the growing season. Growing ponds maintained good health and high productivity. Now with an inventory of fresh frozen and dry product, we'll

introduce more products beyond the local community to select chefs, fresh and locavore restaurants and juice bars in the Pacific Northwest.



Elements of the smart microfarm remote control dashboard

Smart algae microfarms may be the future of greenhouses, hydroponics and urban farming. Now in a small area, fast-growing microalgae, like the superfood spirulina, produce higher income for growers than conventional food, herbs and vegetables. Successful small-scale algae cultivation is now practical. With web-based remote sensors and controls developed by Smart Microfarms, remote experts can guide local operators, without the cost of onsite algae scientists. This breakthrough, combined

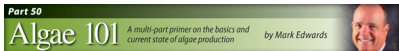
Parallel to large algae production systems by well-funded algae ventures, is the emerging interest in smaller, scalable algae farms and business models. Evolving from projects in developing world villages, algaepreneurs have been growing spirulina algae in small outdoor greenhouses and photobioreactors. 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.



[Algae Videos at SmartMicrofarms.com](#)

- * Spirulina in Myanmar.
- * Algae Microfarms Book.
- * Spirulina Algae Microfarm Olympia Washington.

with scalable, modular growing systems, means algae microfarms can be installed anywhere in the world. Offering higher income and healthy foods for local markets. Now growers and investors can transform our food culture, sustainably and profitably. For more on this opportunity, see www.smartmicrofarms.com.

Spirulina reduces opportunistic infections in HIV patients

New research on the health benefits of spirulina (*arthrospira platensis*) has just been published by the National Center for Biotechnology Information.

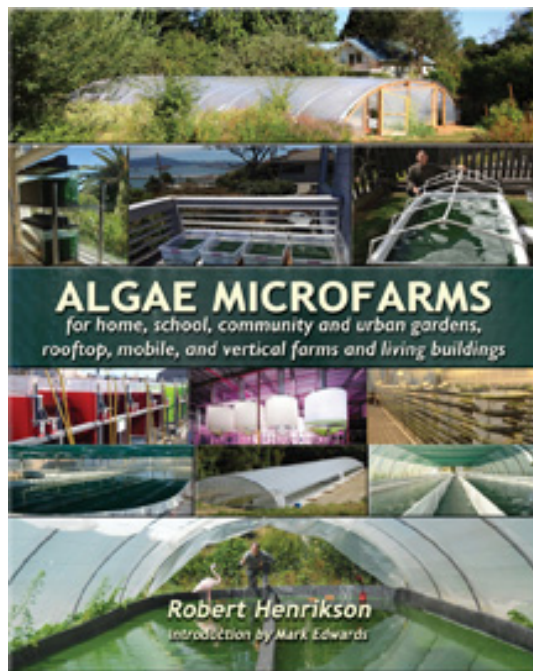
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Nutrients. Jul 2014; 6(7): 2973–2986. PMCID: PMC4113773
Published online Jul 23, 2014. doi: [10.3390/nu6072973](https://doi.org/10.3390/nu6072973)

The Effect of *Arthrospira platensis* Capsules on CD4 T-Cells and Antioxidative Capacity in a Randomized Pilot Study of Adult Women Infected with Human Immunodeficiency Virus Not under HAART in Yaoundé, Cameroon

The research asked if 5 grams (10 capsules) of spirulina per day for 3 months would provide positive benefits to HIV infected adult women compared to a placebo. 73 women in Cameroon participated in this study. Conclusion: spirulina intervention "seemed to reduce the incidence of concomitant events, as well as opportunistic infections and showed a positive effect on weight stabilization." This represents significant benefits, since people with compromised immune systems such as HIV are vulnerable to opportunistic or concomitant infections. This new research with humans supports much previous research with cell culture and animal studies that spirulina as a dietary supplement has anti-retroviral, anti-oxidant and immune enhancement benefits.

[Nutrients. Jul 2014; 6\(7\): 2973-2986. Jul 23, 2014. doi: 10.3390/nu6072973](https://doi.org/10.3390/nu6072973)



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.

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

- * Algae Growing Systems for Home and Backyard.
- * Future of Algae: The Algae Competition.
- * Integrated Spirulina Microfarm in France.
- * Commercial Algae Farm in Thailand.

- 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

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