

algaebiosciences^{CORP}



The Future of the “Algae CleanTech Industry”

Andrew Ayers, CEO | 928.240.1060
a.ayers@algaebio.com

Glen Galster, President | 928.978.1043
glen@algaebio.com

What is “Algae CleanTech”?

Generating profits and revenue from natural, clean resources

- Natural, plant-based source of the omega-3 fatty acids EPA and DHA — not from threatened fish populations
- Natural, plant-based source of pharmaceuticals and nutraceuticals
- Renewable source of plant-based alternative energy
- Natural way of remediating greenhouse gas emissions through the production and sales of offsetting carbon credits from:
 - Existing power generation facilities (coal and oil)
 - Existing manufacturing facilities

A Multidivisional Opportunity

Algae Biosciences Corporation

Parent Company

HOLDER OF INTELLECTUAL PROPERTY

AlgaeNutra

AlgaeAgra

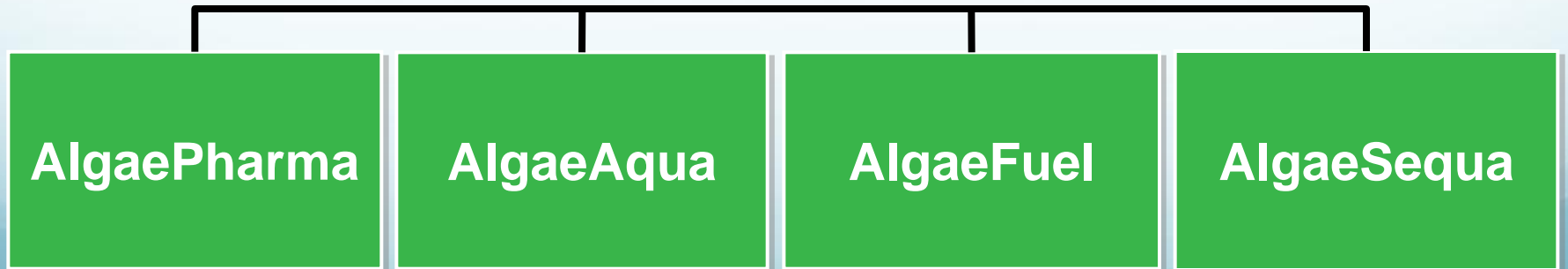
Future Divisions

AlgaePharma

AlgaeAqua

AlgaeFuel

AlgaeSequa



A Multidivisional Opportunity

Algae Biosciences Corporation

Parent Company

HOLDER OF INTELLECTUAL PROPERTY

AlgaeNutra

AlgaeAgra

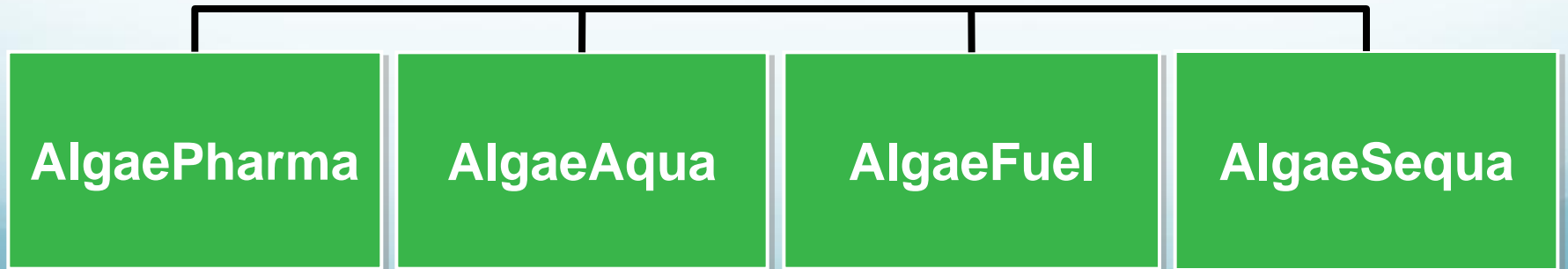
Future Divisions

AlgaePharma

AlgaeAqua

AlgaeFuel

AlgaeSequa



Unique Initial & Future Products

AlgaeNutra

- **Nutraceuticals**
- **Omega-3 supplements and food ingredients**
- **Protein powders**
- Totally unique omega-3 products contain *both* **EPA** and **DHA**. Highly valued, plant-based, vegetarian, nutritional supplements unlike mercury-contaminated fish oil.
- Future: carotenoids; lutein, zeaxanthin, fucoxanthin, and astaxanthin — potent antioxidants that reduce cell damage and fight disease; fluorescent dyes (natural dyes that can replace synthetic dyes in food and cosmetics)

A Multidivisional Opportunity

Algae Biosciences Corporation

Parent Company

HOLDER OF INTELLECTUAL PROPERTY

AlgaeNutra

AlgaeAgra

Future Divisions

AlgaePharma

AlgaeAqua

AlgaeFuel

AlgaeSequa

Unique Initial & Future Products

AlgaeAgra

- **Soil enhancers for increasing large scale agricultural production**
- **Natural fumigants**

An algae-based system to increase terrestrial crop production by:

- Increased bioavailability of macro and micro nutrients
- Enhanced soil organics and water-holding capabilities
- Increased soil porosity
- Replacement of chemical fumigants

A Multidivisional Opportunity

Algae Biosciences Corporation

Parent Company

HOLDER OF INTELLECTUAL PROPERTY

AlgaeNutra

AlgaeAgra

Future Divisions

AlgaePharma

AlgaeAqua

AlgaeFuel

AlgaeSequa



Unique Initial & Future Products

AlgaePharma (Future Division)

- **Ultra-pure pharmaceuticals**
- **Therapeutics**
- **Scientific reagents**
- Bioactive peptides, replacement proteins, immune system stimulators and suppressants, diagnostic proteins and enzymes

A Multidivisional Opportunity

Algae Biosciences Corporation

Parent Company

HOLDER OF INTELLECTUAL PROPERTY

AlgaeNutra

AlgaeAgra

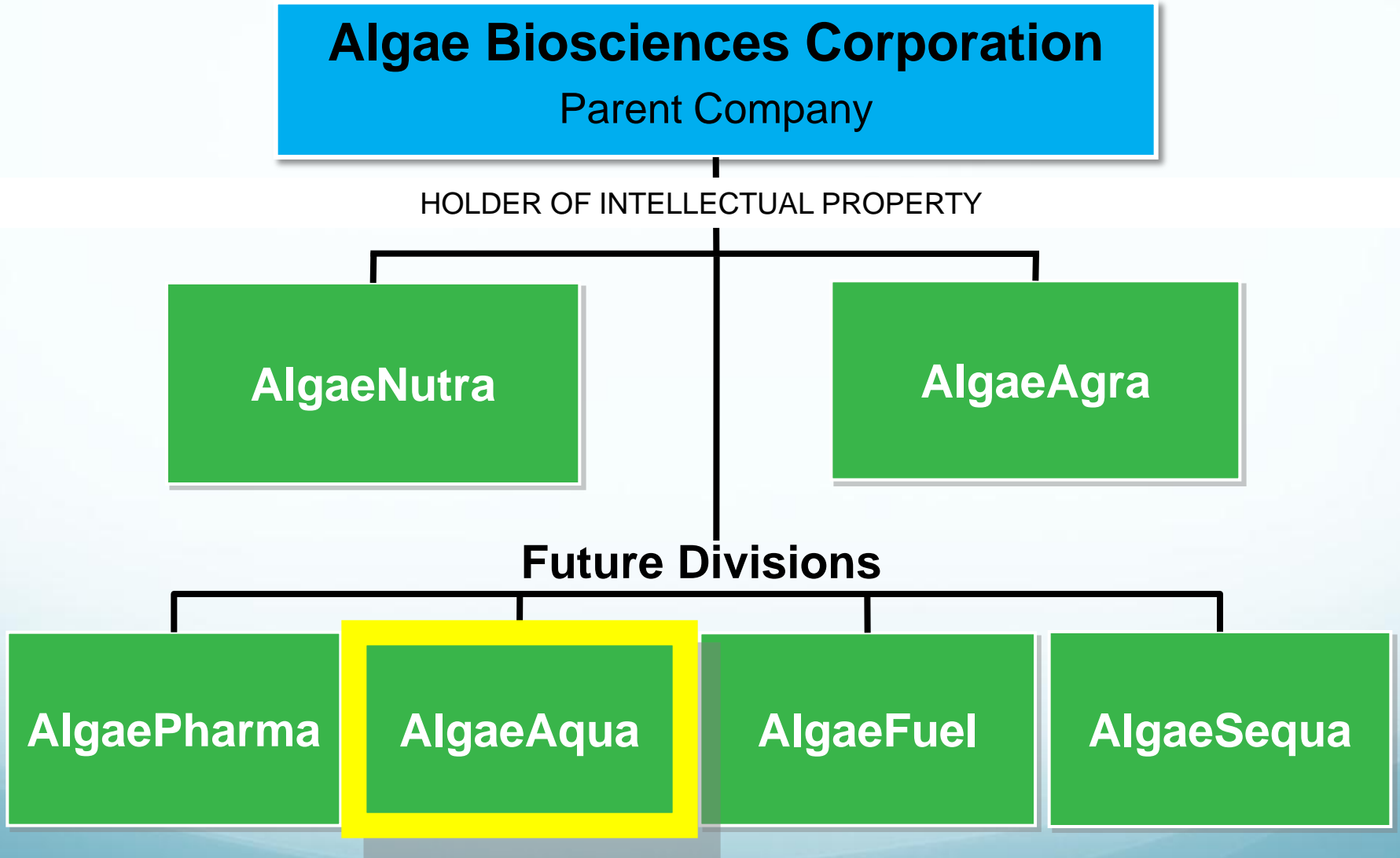
Future Divisions

AlgaePharma

AlgaeAqua

AlgaeFuel

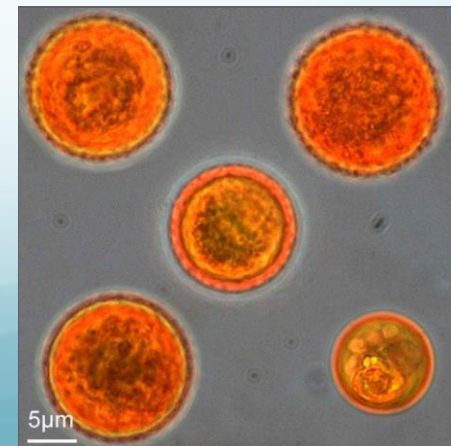
AlgaeSequa



Unique Initial & Future Products

AlgaeAqua (Future Division)

- **Shrimp, fish, and mollusk feeds**
- **Products for Asian and Pacific food markets**
 - Natural feed for fish, shrimp, and mollusk larvae
 - Whole and defatted algae powders for fish, shrimp, and mollusks
 - Fresh macroalgae (sea veggies) for the Pacific and Asian food markets



A Multidivisional Opportunity

Algae Biosciences Corporation

Parent Company

HOLDER OF INTELLECTUAL PROPERTY

AlgaeNutra

AlgaeAgra

Future Divisions

AlgaePharma

AlgaeAqua

AlgaeFuel

AlgaeSequa

Unique Initial & Future Products

AlgaeFuel (Future Division)

- **Biofuels** (biodiesel, alcohols)
- **Lubricants** for diesel fuel
- **Biodegradable plastics**

A Multidivisional Opportunity

Algae Biosciences Corporation

Parent Company

HOLDER OF INTELLECTUAL PROPERTY

AlgaeNutra

AlgaeAgra

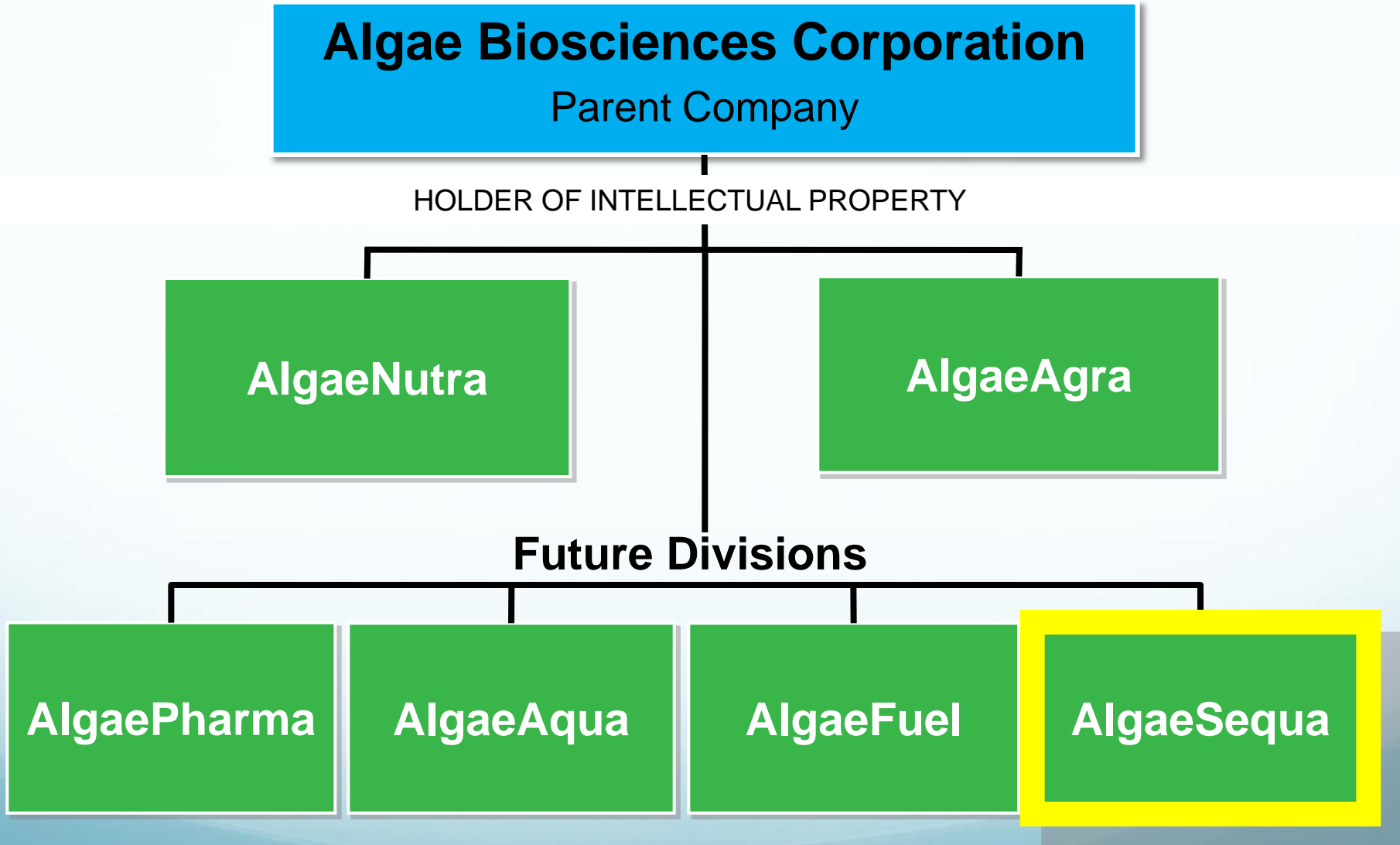
Future Divisions

AlgaePharma

AlgaeAqua

AlgaeFuel

AlgaeSequa



Unique Initial & Future Products

AlgaeSequa (Future Division)

Carbon credits for sale to non-CleanTech industries

- Sequestration of CO₂ directly from:
 - Existing power generation facilities (coal and oil)
 - Existing manufacturing facilities
- Production of off-setting carbon credits that can be sold to other companies or industries based on the 2.5 to 1 ratio of CO₂ incorporation into algae biomass

Intellectual Property



U.S. Patent #
6,986,323

Patented Process

- Protects AlgaeBio's high-yield / high-quality production method using a unique method
- Patent's 39 claims are cross-verified for validity and enforceability
- Trade secrets and patent create major competitive advantages
- Future patents on algae strains, processes and equipment will follow

Intellectual Property

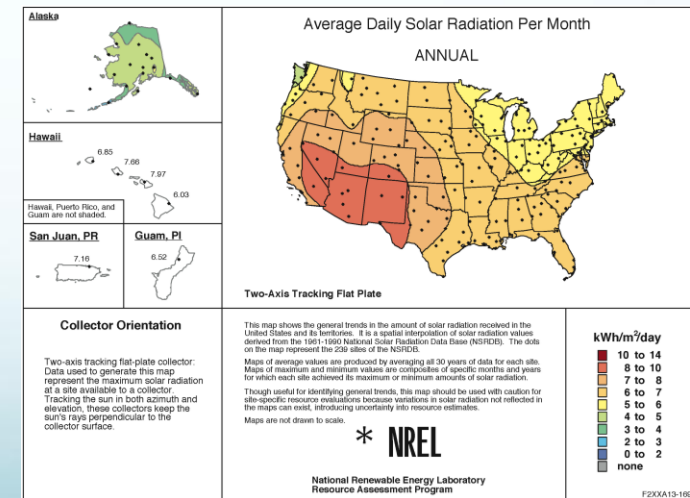
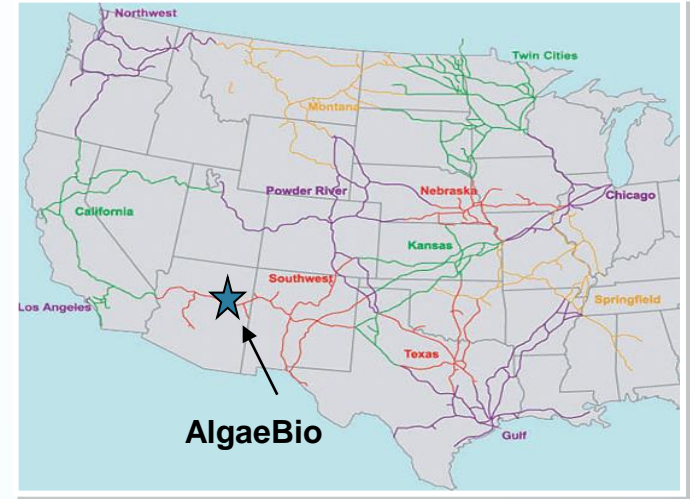
Future Patentable IP & Trade Secrets

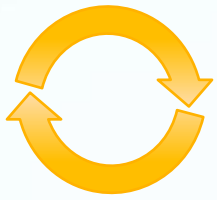
- Continuous development of bioreactor, harvesting, and extraction-system efficiencies
- Isolation and development of new, unique algae strains and procedures to produce our various products
- Continuous search for new applications for algae and algae-derived products



Geographic “Sweet Spot”

- Almost perfect growing environment
 - Moderate temperatures
 - High duration and intensity of sunlight
- Low labor costs
- Convenient rail and highway access
- Within easy reach of the world’s largest producers and markets for products





Biofuels: Energy for the Future

AlgaeBio's proprietary algae strains and cultivation techniques...

- Eliminate the contamination problems that plague our competitors
- Reduce production costs dramatically

AlgaeBio's northern Arizona location offers access to...

- An unlimited supply of saltwater for culturing
- Abundant solar radiation
- Massive amounts of land for economies of scale

Proprietary Manufacturing Process

- Algae are cultured in a sterilized, fertilized, saline groundwater within proprietary bioreactors.
- A fresh “crop” is harvested every 24 hours using proprietary techniques.
- Algae paste biomass is dried/packaged for sale or processed to extract oils and other valuable compounds.



Markets & Marketing

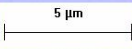
- Market demands for omega-3 fatty acids exceed current industry production capacity:
 - Current world demand = \$4.6 billion U.S.
 - 2011 estimate = \$8.2 billion U.S.
- Many current market suppliers of omega-3s are experiencing over 20 percent annual revenue growth for algae-based ingredients in food and nutritional products — **with premium prices paid for the purest products**

Markets & Marketing

Brand-within-a-Brand Marketing Strategy

- Applied to products whenever possible (e.g. CocaCola™ with NutraSweet™)
- Distributed through major nutritional supplement companies as base ingredients for their products
- Sold in bulk to food-product manufacturers (e.g. General Mills)
- Use of strong agency relationships
- Use of multiple distribution channels

Austin



1000X Oil DIC



2286
ase/mis_suecica

Leadership Team



Robert Thompson, C.A., CMC, Chairman of the Board of Directors

Past National Partner-in-Charge, Stevenson Kellogg Ernst & Whinney, Management Consultants

Arizona State University mentor to emerging technology companies

Past Chairman of the Board of a major Canadian investment bank / broker dealer

Director of more than 20 public and private companies in the U.S. and Canada

Partner of CanAm Capital Partners, LLC, an international corporate-finance advisory firm

Leadership Team



Andrew Ayers, MS. Co-Founder, Chief Executive Officer, Board Member

Leading research biologist with expertise in all facets of marine and freshwater algae production and manufacturing

Former researcher at the University of Hawaii, Texas A&M University and Granada Biosciences, Incorporated; author of numerous scientific publications

More than 30 years of experience in field of aquaculture

Expert in culturing / purifying a wide array of unicellular algal species, on a large scale

Leadership Team

Dr. Mark Edwards, Board Member



Professor, Marketing Strategy and Sustainability, Arizona State University

B.S. U.S. Naval Academy in mechanical engineering, oceanography and meteorology

MBA, PhD at ASU in marketing /consumer psychology

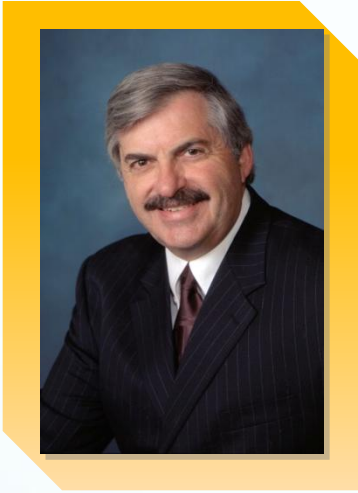
CEO of TEAMS Intl. (software and technology firm he founded)

Lead assessment and leadership development consultant for over 400 firms globally

Director for a Fortune 50 transportation and foods company

Published over 100 articles and 12 books, including a business and a science bestseller

Leadership Team



R. Keith Guelpa, BComm., Board Secretary

Cofounder /President/CEO of QuoteMedia, Inc.

40+ year career

Served as President/CEO of six high-tech firms in such industries as telecommunications, digital imaging, and Internet communications

Served as President of a public company offering securities brokerage, financial planning, and investment banking services

Director of more than 10 public and private companies

Leadership Team



Glen Galster, Co-Founder President, Board Member

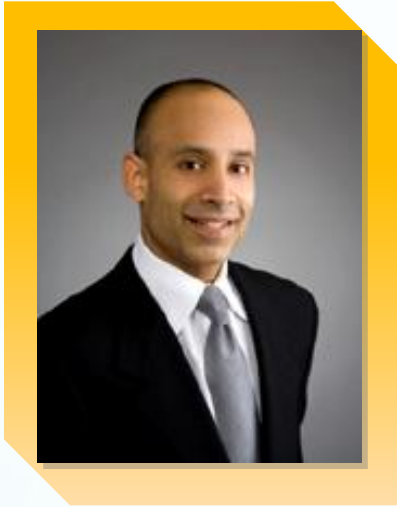
Over 30 year career as a business executive and entrepreneur

Former President of LMG Consultants

Director of AZ BioIndustry Association

Business development expert in planning and implementing business plans for a variety of start ups, early stage and turn around companies.

Leadership Team



Rakesh M. Amin, L.L.M., R.Ph, Board Member

Attorney and pharmacist

Specializes in regulatory issues related to the nutraceutical and pharmaceutical industries

Provides counsel to food, drug, cosmetic, medical device, and biotechnology companies

Practices patent, trademark, copyright, Internet trade, and unfair competition law

Extensive experience prosecuting, maintaining, licensing, and litigating IP